```
When was Python released?
1.
2.
      Who developed Python?
      In how many ways, can you work in Python?
3.
      What is the error in following code: x, y = 7?
4.
      What will the following code do: a=b=18?
5.
      What is the error in following Python program with one statement?
6.
      print("My name is:", name)
a.
      What will be the output of the following code:
       name='Hari'
       age=18
      print(name, ", you are ", age, " now but ", end="")
      print("You will be ",age+1," next Year")
      Identify the data types of the following values given bellow –
                13.0, "12", "14", 2+0j, 19,
      3,3i,
                                                         [1,2,3], (3,4,5)
      What will be the output of the following:?
      (a) 12/4 (b) 14//14 (c) 14\%4
                                       (d) 14.0/4 (e) 14.0//4 (f)14.0%4
      What will be the output of the following?
       a = 5 - 4 - 3
       b=3**2**3
       print(a)
       print (b)
11. Convert 11111011110101<sub>2</sub> to octal.
12.
      Covert the following binary numbers to decimal
                                                         (a)1010 (b) 111000
13.
      Covert the following Decimal numbers to binary
                                                         (a) 23 (b) 100
      Covert the following Hexadecimal numbers to Binary (a) BE (b) BC9
14.
15.
      Covert the following binary numbers to Hexadecimal -
      (a)101000001
                        (b) 11100011
                                                 (c) 10101111
      Covert the following Octal numbers to Binary -(a) 456 (b) 26 (c) 751
16.
      Prove X. (X+Y) = X using truth table.
17.
      Give duals for the following (a) X+X'Y
18.
                                                 (b) XY+XY'+X'Y
      Draw logic circuit diagram for the following expression –
      (a) Y = AB + B'C + A'
                                (b) R = XYZ' + Y.(X+Z')
      The return type of the input() function is
20.
                        b. integer
      a. string
                                                                  d. tuple
                                                 c. list
      Give an example each of following:
      i. Assigning same value to multiple variables.
      ii. Assigning multiple values to multiple variables
      Identify invalid identifiers and specify the reason:
      i. True
                 ii. Student-Name
                                         iii. IF
                                                  iv. PRINT
                                                                  v. 1stAge
      What will be the output of following code:
23.
      a, b = 10, 2
      a, b, a = a + 5, b + 2, a + 4
      print (a, b)
      What will be value of x after evaluation of each of following separately: (Don't use
24.
      Dynamic Typing)
       i. x = 29 / 5 ii. x = 39 / / 4 * 2 iii. x = 3 ** 2 ** 2 iv. x = 2 ** 5 % 3 - 5
      What will be the final output of following logical expression:
```

Differentiate equality (==) and identity (is) operators with example.

(17 > 4) or (3 < 2) and not 17 < 18

26.

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      a. string
                        b. integer
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      What will be the output of following code:
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      a, b, a = a + 5, b + 2, a + 4
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      What will be value of x after evaluation of each of following separately: (Don't use
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      Dynamic Typing)
      i. x = 29/5 ii. x = 39/4 * 2 iii. x = 3 ** 2 ** 2 iv. x = 2 ** 5 % 3 -5
      What will be the final output of following logical expression:
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26. Differentiate equality (==) and identity (is) operators with example.

(17 > 4) or (3 < 2) and not 17 < 18

```
What will be the type of final evaluated value of following expressions:
                                                                                                          What will be the type of final evaluated value of following expressions:
                                   iii. print (type (3 * 32 // 16))
                                                                                                                                      iii. print (type (3 * 32 // 16))
       i.print (type (5*2))
                                                                                                          i.print (type (5*2))
       ii.print (type (14 * 5.0 * 2)) iv. print (type (50/2 + 5))
                                                                                                          ii.print (type (14 * 5.0 * 2)) iv. print (type (50/2 + 5))
      Write a program that prompts the user to input a Celsius temperature and outputs
                                                                                                         Write a program that prompts the user to input a Celsius temperature and outputs
       the equivalent temperature in Fahrenheit. The formula to convert the temperature
                                                                                                          the equivalent temperature in Fahrenheit. The formula to convert the temperature
       is: F = 9/5 C + 32 where F is the Fahrenheit temperature and C is the Celsius
                                                                                                          is: F = 9/5 C + 32 where F is the Fahrenheit temperature and C is the Celsius
       temperature.
                                                                                                          temperature.
                                                                                                          Which Python built-in function returns the unique number assigned to an object?
      Which Python built-in function returns the unique number assigned to an object?
       *identity()
                          *id()
                                            *refnum()
                                                                                                          *identity()
                                                                                                                             *id()
                                                                                                                                               *refnum()
                                                              *ref( )
                                                                                                                                                                 *ref( )
                                                                                                          The operator used to check if both the operands reference the same object memory,
       The operator used to check if both the operands reference the same object memory,
       is the ..... operator.
                                   *in
                                                                                                          is the ..... operator.
                                                     *is
                                                                                                                                       *in
                                                                                                          For two objects x and y, the expression x is y will yield True, if and only if
       For two objects x and y, the expression x is y will yield True, if and only if
                          *len(x) == len(y)
                                                                                                                             *len(x) == len(y)
       *id(x) == id(y)
                                                     *_X == v
                                                                       *all of these
                                                                                                          *id(x) == id(y)
                                                                                                                                                        *_X == v
                                                                                                                                                                          *all of these
       Which of the following is not an immutable type in Python?
                                                                                                   32.
                                                                                                          Which of the following is not an immutable type in Python?
       *String
                          *Tuples
                                                                       *dictionary
                                                                                                          *String
                                                                                                                              *Tuples
                                                     *Set
                                                                                                                                                        *Set
                                                                                                                                                                          *dictionary
       Python operator always yields the result of ........ datatype.
                                                                                                          Python operator always yields the result of ........ datatype.
33.
                                                                                                   33.
                          *floating point
                                                                                                                             *floating point
                                                     *complex
                                                                       *all of these
                                                                                                                                                        *complex
                                                                                                                                                                          *all of these
       What is the value of the expression 100 / 25?
                                                                                                          What is the value of the expression 100 / 25?
34.
                                                                                                   34.
                          *4.0
                                                     *2.5
                                                                       *none of these
                                                                                                                              *4.0
                                                                                                                                                        *2.5
                                                                                                                                                                          *none of these
                                                                                                          What is the value of the expression 100 // 25?
       What is the value of the expression 100 // 25?
35.
                                                                                                   35.
                          *4.0
                                                     *25
                                                                       *none of these
                                                                                                                              *4.0
                                                                                                                                                                          *none of these
      In Python, a variable must be declared before it is assigned a value.
                                                                                                         In Python, a variable must be declared before it is assigned a value.
36.
                                                                                                   36.
       *True
                          *False
                                            *Only in Functions
                                                                       *Only in modules
                                                                                                          *True
                                                                                                                              *False
                                                                                                                                               *Only in Functions
                                                                                                                                                                          *Only in modules
      In Python, a variable is assigned a value of one type, and then later assigned a value
                                                                                                         In Python, a variable is assigned a value of one type, and then later assigned a value
                                                                                                   37.
       of a different type. This will yield .........
                                                                                                          of a different type. This will yield .........
                          *Error
                                            *None
                                                                                                                              *Error
                                                                                                                                                *None
       *Warning
                                                                       *No Error
                                                                                                          *Warning
                                                                                                                                                                          *No Error
      In Python, a variable may be assigned a value of one type, and then later assigned a
                                                                                                         In Python, a variable may be assigned a value of one type, and then later assigned a
       value of a different type. This concept is known as ........
                                                                                                          value of a different type. This concept is known as ........
       *Mutability
                          *static typing
                                          *dynamic typing
                                                                       *immutability
                                                                                                          *Mutability
                                                                                                                              *static typing
                                                                                                                                              *dynamic typing
                                                                                                                                                                          *immutability
                                                                                                         Is it safe to directly use the = operator to determine whether objects of type float
       Is it safe to directly use the == operator to determine whether objects of type float
       are equal? *Yes *No *Yes, if the values are < 100 *Yes, if the values are > 100
                                                                                                          are equal? *Yes *No *Yes, if the values are < 100 *Yes, if the values are > 100
      What will the following code produce?
                                                                                                          What will the following code produce?
       a = 8.6
                                                                                                          a = 8.6
       b = 2
                                                                                                          b = 2
       print ( a//b )
                                                                                                          print (a//b)
                          *4.0
                                                              *compilation error
                                                                                                          *4.3
                                                                                                                              *4.0
                                                                                                                                                                 *compilation error
       *4.3
      In the Python statement x = a + 5 - b: a and b are .........
                                                                                                         In the Python statement x = a + 5 - b: a and b are .........
       *Operands
                          *Expression
                                            *operators
                                                              *Equation
                                                                                                          *Operands
                                                                                                                              *Expression
                                                                                                                                               *operators
                                                                                                                                                                 *Equation
       What will be the value of y after following code fragment is executed?
                                                                                                          What will be the value of y after following code fragment is executed?
       x = 10.0; y = (x < 100.0) and x >= 10
                                                                                                          x = 10.0; y = (x < 100.0) and x >= 10
       *110
                          *True
                                            *False
                                                                                                          *110
                                                                                                                              *True
                                                                                                                                                *False
                                                                                                                                                                 *Error.
                                                              *Error.
       Which of the following operators has the lowest precedence?
                                                                                                          Which of the following operators has the lowest precedence?
43.
                                                                                                   43.
                          *%
                                            *and
                                                                                                                              *%
                                                                                                                                               *and
      What is the value of the expression 10 + 3 ** 3 * 2?
                                                                                                          What is the value of the expression 10 + 3 ** 3 * 2?
44.
                                                                                                   44.
                          *739
                                                                                                                              *739
                                            *829
                                                              *64
                                                                                                                                               *829
      To increase the value of x five times using an augmented assignment operator, the
                                                                                                         To increase the value of x five times using an augmented assignment operator, the
       correct expression will be
                                                                                                          correct expression will be
                                            *_{X} = _{X} ** 5
                                                                                                          *_{x} += 5
                                                                                                                              *_{x} *= 5
       *_{x} += 5
                          *x *= 5
                                                              *none of these
                                                                                                                                                *_{X} = _{X} ** 5
                                                                                                                                                                 *none of these
```