

1 By convention python scripts are stored as text files with extension?

a) **.py**

b) **.p**

c) **.python**

d) **.pyt**

2 Python is considered an _____ language.

- a. interpreted
- b. compiled
- c. interactive
- d. composed

At python language interpreter's prompt, consider

3 **>>> 3 + 2**

if above input is given and enter is hit then output should be ?

- a. 2
- b. 3
- c. 3+2
- d. 32
- e. 5
- f. compiling

4 What is the output:

```
1.number = 99
2.def check_x():
3.     if False:
4.         print("number is greater")
5.     elif False:
6.         print("number is less ")
7.     else:
8.         print("number is equal to")
9.
10.check_x()
```

-
- a. number is greater
 - b. number is less
 - c. number is equal to
 - d. no output will be printed

5 What is the output:

```
x =49
if x >= 49:
    print("XLIX")
elif x!=0:
    print("exclamation")
else:
    print("no exclamation")
```

- a. exclamation
- b. no exclamation
- c. XLIX
- d. doesn't print anything

6 What is the output:

```
x =49
if x!=0:
    print("exclamation")
else:
    print("no exclamation")
```

-
- a. exclamation
 - b. no exclamation
 - c. error
 - d. doesn't print anything

7 What is the output:

```
>>> greeting = 'Hello World'  
>>> greeting[0] = 'J'
```

-
- a. Hello World
 - b. Jello World
 - c. Error
 - d. Null

8 What is the output:

```
x = 1
for i in range(2):
    for j in range(2):
        x += 1
print(x)
```

-
- a. This will result in an error
 - b. 4
 - c. 3
 - d. 1
 - e. 5

9 What is the output:

```
for i in range (2) :  
    for j in range (2) :  
        print(i,j)
```

a.

0 0
1 1
2 2

b.

0 0
0 1
1 0
1 1

c.

0 0
0 1
0 2
1 0
1 1
1 2

d.

0 0
0 1
0 2
1 0
1 1
1 2
2 0
2 1
2 2

10 What is the output:

```
1. a = 3
2. b = 2
3. c = a**b
4.
5. print(c)
```

(a) 6

(b) 9

(c) 8

(d) 5

11 What is the output:

```
1. a = 4
2. b = 3
3. c = a * b
4. c += 1
5. print(c)
```

- (a) 7
- (b) 'c'
- (c) 12
- (d) 13
- (e) 1
- (f) There is a syntax error
- (g) There is a runtime error

12 What is the output:

```
1. a = 7
2. b = 3
3. c = a % b
4. print(c)
```

- (a) 7
- (b) 'c'
- (c) 2
- (d) 3
- (e) 1
- (f) There is a syntax error
- (g) There is a runtime error

13 What is the output:

```
1. a = 7
2. b = 3
3. c = a // b
4. print(c)
```

- (a) 7
- (b) 2
- (c) 'c'
- (d) 3
- (e) 1
- (f) There is a syntax error
- (g) There is a runtime error

14 What is the output:

```
1. a73_ = 7
2. b_27 = 3
3. c = a73_ + b_27
4. print(c)
```

- (a) 100
- (b) 10
- (c) 'c'
- (d) 73
- (e) 1
- (f) There is a syntax error
- (g) There is a runtime error

15 What is the output:

```
1. 3bears = ['mamma', 'pappa', 'baby']  
2. print(3bears)
```

- (a) ['mamma', 'pappa', 'baby']
- (b) 3bears
- (c) mamma, pappa, baby
- (d) mamma
- (e) baby
- (f) There is a syntax error
- (g) There is a runtime error

16 What is the output:

```
1. a = 3
2. b = 4
3. a = 5
4. print(a)
```

- (a) 4
- (b) 3
- (c) 'a'
- (d) 5
- (e) 35
- (f) There is a syntax error
- (g) There is a runtime error

17 What is the output:

```
1. a = 3
2. b = 4
3. a == 5
4. print(a)
```

- (a) 4
- (b) 3
- (c) 'a'
- (d) 5
- (e) 35
- (f) There is a syntax error
- (g) There is a runtime error

18 What is the output:

```
1. a = 3
2. b = 4
3. c = a == 5
4. print(c)
```

- (a) 4
- (b) 3
- (c) 'c'
- (d) 5
- (e) False
- (f) True
- (g) There is a syntax error
- (h) There is a runtime error

19 What is the output:

```
1. a = 3
2. b = 4
3. if a == 5:
4.     print('yes')
```

- (a) yes
- (b) 'yes'
- (c) 3
- (d) 5
- (e) False
- (f) True
- (g) There is a syntax error
- (h) There is a runtime error
- (i) Nothing

20 What is the output:

```
1. a = 3
2. b = 4
3. if a == b
4.     print('yes')
```

- (a) yes
- (b) 'yes'
- (c) 3
- (d) 5
- (e) False
- (f) True
- (g) There is a syntax error
- (h) There is a runtime error

21 How should I fix the error:

```
1. a = 3
2. b = 4
3. if a == b
4.     print('yes')
```

- (a) Assign 4 to a in line 1
- (b) Assign 3 to b in line 2
- (c) Remove an equal sign from line 3
- (d) Change the indentation of line 4
- (e) Add parenthesis around the condition of the if statement in line 3
- (f) Add a colon to the end of line 3
- (g) Add an else clause after line 4
- (h) There is no error

22 What is the output:

```
1. a = 3
2. b = 4
3. if a > b:
4.     print('yes')
5. else:
6.     print('no')
```

(a) Yes

(b) no

(c) 3

(d) 5

(e) False

(f) True

(g) There is a syntax error

(h) There is a runtime error

23 What is the output:

```
1. a = 3
2. b = 4
3. c = b
4. b = a
5. a = c
6. print('a :',a,'b :',b)
```

- (a) a : 3 b : 4
- (b) a : 3, b : 4
- (c) a : 4 b : 3
- (d) a : 4, b : 3
- (e) 'a :', a, 'b :', b
- (f) ('a :', 4, 'b :', 3)
- (g) ('a :', 3, 'b :', 4)
- (h) There is a syntax error
- (i) There is a runtime error

24 Which produces this output:

Hello, world

- (a) `print(Hello, world)`
- (b) `print('Hello, world')`
- (c) `print('Hello', 'world')`
- (d) `print("Hello", "world")`

25 Which produces this output:

```
0 1 2 3 4 5 6 7 8 9
```

- (a)

```
1 for i in range(10):  
2     print(i)
```
- (b)

```
1 for i in range(10):  
2     print(i, end=' ')
```
- (c)

```
1 for i in range(9):  
2     print(i)
```
- (d)

```
1 for i in range(9):  
2     print(i, end=' ')
```

26 What is the output:

```
1 for i in range(1, 9):  
2     print(i, end=' ')
```

- (a) 0 1 2 3 4 5 6 7 8 9
- (b) 1 2 3 4 5 6 7 8 9
- (c) 0 1 2 3 4 5 6 7 8
- (d) 1 2 3 4 5 6 7 8
- (e) 0123456789
- (f) 123456789
- (g) 12345678
- (h) There is a syntax error
- (i) There is a runtime error

27 What is the output:

```
1 for i in range(1, 9, 3):  
2     print(i, end=' ')
```

- (a) 0 1 2 3 4 5 6 7 8 9
- (b) 1 2 3 4 5 6 7 8 9
- (c) 1 3 5 7 9
- (d) 1 4 7
- (e) 1 5 9
- (f) 1
- (g) The program hangs
- (h) There is a syntax error
- (i) There is a runtime error

28 What is the output:

```
1 for i in range(1, 3, 9):  
2     print(i, end=' ')
```

- (a) 0 1 2 3 4 5 6 7 8 9
- (b) 1 2 3 4 5 6 7 8 9
- (c) 1 3 5 7 9
- (d) 1 4 7
- (e) 1 5 9
- (f) 1
- (g) The program hangs
- (h) There is a syntax error
- (i) There is a runtime error

29 What is the output:

```
1 for i in range(9, 0, -1):  
2     print(i, end=' ')
```

- (a) There is no output
- (b) 9
- (c) 9 8 7 6 5 4 3 2 1 0
- (d) 9 8 7 6 5 4 3 2 1
- (e) 0 1 2 3 4 5 6 7 8 9
- (f) 0
- (g) The program hangs
- (h) There is a syntax error
- (i) There is a runtime error

30 What is the output:

```
1 for i in range(9, 0):  
2     print(i, end=' ')
```

- (a) There is no output
- (b) 9
- (c) 9 8 7 6 5 4 3 2 1 0
- (d) 9 8 7 6 5 4 3 2 1
- (e) 0 1 2 3 4 5 6 7 8 9
- (f) 0
- (g) The program hangs
- (h) There is a syntax error
- (i) There is a runtime error

31 Which does **not** produce the output:

1 2 2 3 3 3 4 4 4 4 5 5 5 5 5

(a)

```
1 for i in range(1,5):
2     for j in range(i):
3         print(i,end='')
```

(c)

```
1 for i in 1, 2, 3, 4, 5:
2     for j in range(i):
3         print(i,end='')
```

(b)

```
1 i=1
2 while i <= 5:
3     j = 0
4     while j < i:
5         print(i, end='')
6         j += 1
7     i += 1
```

(d)

```
1 i=1
2 while i <= 5:
3     for j in range(i):
4         print(i, end='')
5         i += 1
6     i += 1
```

32 What is the output:

```
1 i = ord('A')  
2 c = chr(i+1)  
3 print(c)
```

- (a) 96
- (b) 97
- (c) A
- (d) a
- (e) b
- (f) B
- (g) There is a syntax error
- (h) There is a runtime error

33 What's the answer:

Suppose you want to write a program that keeps generating random numbers between 1 and 6 until it generates a 2. Which type of loop would you use?

- (a) A for loop
- (b) A while loop
- (c) An if loop
- (d) A random loop

34 What is the next line of output:

```
1 a = input('Enter a number:')  
2 b = input('Enter another number:')  
3 print(a + b)
```

```
Enter a number: 3  
Enter another number: 4
```

- a. 7
- b. 3 4
- c. '3 4'
- d. a b
- e. There is a syntax error
- f. There is a runtime error

35 What is the next line of output:

```
1 a = input('Enter a number:')  
2 b = 4  
3 print(a + b)
```

```
Enter a number: 3
```

- a. 7
- b. 3 4
- c. '3 4'
- d. a b
- e. There is a syntax error
- f. There is a runtime error

36 What is the output:

```
1 x = 0
2 for i in range(10):
3     for j in range(10):
4         x += 1
5 print(x)
```

37 What is the output:

```
1 x = 0
2 for i in range(10):
3     for j in range(10):
4         x += 1
5     x += 1
6 print(x)
```

38 What is the output:

```
1 def foo(x=5):  
2     print(x)  
3 foo(3)
```

39 What is the output:

```
1 def foo(x=5):  
2     print(x)  
3 foo()
```

40 What is the output:

```
1 def bar(z):  
2     print(x)  
3  
4 def foo(x=5):  
5     bar(x)  
6  
7 x = 12  
8 foo()
```


41 What is the output:

```
x = 0
for j in range(7):
    if j > 2:
        x += 1
print(x)
```

- a. This will result in an error
- b. 4
- c. 3
- d. 1
- e. 5
- f. 7

42 What is the output:

```
1 def bar(z):  
2     print(z)  
3  
4 def foo(x=5):  
5     bar(x)  
6  
7 foo()
```

43 What is the output:

```
1 def foo(x=5):  
2     if x == 0:  
3         return 1  
4     else:  
5         return 2*foo(x-1)  
6  
7 print(foo(3))
```

44 What is the output:

```
print("loops"[-1:-2:-1]*3)
```

-
- a. This will result in an error
 - b. ssssss
 - c. Loopsloopsloopsloopsloopsloops
 - d. pspspspspsp
 - e. Loopssssss
 - f. Nothing will be printed

45 What is the output:

```
print("loops"[-1:1:-1]*2)
```

Try and see what is the output