

1. A string is immutable in Python?

Every time when we modify the string, Python Always create a new String and assign a new string to that variable.

- ☐ True
- ☐ False

2. What is the output of the following code?

```
var = "James" * 2 * 3  
print(var)
```

- ☐ JamesJamesJamesJamesJamesJames
- ☐ JamesJamesJamesJamesJames
- ☐ Error: invalid syntax

3. Which operator has higher precedence in the following list

- ☐ % (Modulus)
- ☐ & (BitWise AND)
- ☐ ** (Exponent)
- ☐ > (Comparison)

4. What is the Output of the following code?

```
for x in range(0.5, 5.5, 0.5):  
    print(x)
```

- ☐ [0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5]
- ☐ [0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5]
- ☐ The Program executed with errors

5. What is the output of the following code?

```
var1 = 1
var2 = 2
var3 = "3"

print(var1 + var2 + var3)
```

- ☐ 6
- ☐ 33
- ☐ 123
- ☐ Error. Mixing operators between numbers and strings are not supported

6. What is the output of the following code

```
salary = 8000

def printSalary():
    salary = 12000
    print("Salary:", salary)

printSalary()
print("Salary:", salary)
```

- ☐ Salary: 12000 Salary: 8000
- ☐ Salary: 8000 Salary: 12000
- ☐ The program failed with errors

7. Can we use the “else” block for `for` loop? for example:

```
for i in range(1, 5):
    print(i)
else:
    print("this is else block statement" )
```

- ☐ No
- ☐ Yes

8. What is the output of the following code?

```
for i in range(10, 15, 1):  
    print( i, end=' ', '')
```

- ☐ 10, 11, 12, 13, 14,
- ☐ 10, 11, 12, 13, 14, 15,

9. The `in` operator is used to check if a value exists within an iterable object container such as a list. Evaluate to `True` if it finds a variable in the specified sequence and `False` otherwise.

- ☐ True
- ☐ False

10. What is the output of the following

```
x = 36 / 4 * (3 + 2) * 4 + 2  
print(x)
```

- ☐ 182.0
- ☐ 37
- ☐ 117
- ☐ The Program executed with errors

11. What is the output of the following code?

```
valueOne = 5 ** 2
valueTwo = 5 ** 3

print(valueOne)
print(valueTwo)
```

- ☐ 10,15
- ☐ 25,125
- ☐ Error: invalid syntax

12. What is the output of the following code?

```
def calculate (num1, num2=4):
    res = num1 * num2
    print(res)

calculate(5, 6)
```

- ☐ 20
- ☐ The program executed with errors
- ☐ 30

13. What is the output of the following code?

```
str = "pynative"
print (str[1:3])
```

- ☐ py
- ☐ yn
- ☐ pyn
- ☐ yna

14. What is the output of the following code?

```
sampleSet = {"Jodi", "Eric", "Garry"}  
sampleSet.add(1, "Vicki")  
print(sampleSet)
```

- ☐ {'Vicki', 'Jodi', 'Garry', 'Eric'}
- ☐ {'Jodi', 'Vicki', 'Garry', 'Eric'}
- ☐ The program executed with error

15. What is the output of the following code?

```
p, q, r = 10, 20, 30  
print(p, q, r)
```

- ☐ 10 20
- ☐ 10 20 30
- ☐ Error: invalid syntax

16. What is the output of the following code?

```
listOne = [20, 40, 60, 80]  
listTwo = [20, 40, 60, 80]  
  
print(listOne == listTwo)  
print(listOne is listTwo)
```

- ☐ True,True
- ☐ True,False
- ☐ False,True

17. What is the output of the following code?

```
sampleList = ["Jon", "Kelly", "Jessa"]  
sampleList.append(2, "Scott")  
print(sampleList)
```

- ☐ The program executed with errors
- ☐ ['Jon', 'Kelly', 'Scott', 'Jessa']
- ☐ ['Jon', 'Kelly', 'Jessa', 'Scott']
- ☐ ['Jon', 'Scott', 'Kelly', 'Jessa']

18. What is the output of the following code?

```
var= "James Bond"  
print(var[2::-1])
```

- ☐ Jam
- ☐ dno
- ☐ maJ
- ☐ dnoB semaJ

19. What is the output of `print(2 * 3 ** 3 * 4)`

- ☐ 216
- ☐ 864

20. Which of the following operators has the highest precedence?

- ☐ `not`

- ☐ &
- ☐ *
- ☐ +

21. What is the output of `print(10 - 4 * 2)`

- ☐ 2
- ☐ 12

22. What is the output of the following Python code

```
x = 10
y = 50
if x ** 2 > 100 and y < 100:
    print(x, y)
```

- ☐ 100 500
- ☐ 10 50
- ☐ None

23. What is the output of the following code

```
print(bool(0), bool(3.14159), bool(-3), bool(1.0+1j))
```

- ☐ True True False True
- ☐ False True True True
- ☐ True True False True
- ☐ False True False True

24. What is the output of the following code

```
x = 6
y = 2
print(x ** y)
print(x // y)
```

- ☐ 66,0
- ☐ 36,0
- ☐ 66,3
- ☐ 36,3

25. 4 is **100** in binary and 11 is **1011**. What is the output of the following bitwise operators?

```
a = 4
b = 11
print(a | b)
print(a >> 2)
```

- ☐ 15,1
- ☐ 14,1

26. What is the output of the following addition (+) operator

```
a = [10, 20]
b = a
b += [30, 40]
print(a)
print(b)
```

- ☐ [10, 20, 30, 40],[10, 20, 30, 40]
- ☐ [10, 20],[10, 20, 30, 40]

27. What is the output of the following assignment operator

```
y = 10
```



```
x = y += 2  
print(x)
```

- ☐ 12
- ☐ 10
- ☐ SyntaxError

28 . What is the output of the following code

```
x = 100  
y = 50  
print(x and y)
```

- ☐ True
- ☐ 100
- ☐ False
- ☐ 50

29. Bitwise shift operators (<<, >>) has higher precedence than Bitwise And(&) operator

- ☐ False
- ☐ True

30. What is the value of the following Python Expression

```
print(36 / 4)
```

- ☐ 9.0

- ☐ 9

31. What is the output of `print(2%6)`

- ☐ ValueError
- ☐ 0.33
- ☐ 2

32. What is the output of `print(2 ** 3 ** 2)`

- ☐ 64
- ☐ 512

33. What is the output of the expression `print(-18 // 4)`

- ☐ -4
- ☐ 4
- ☐ -5
- ☐ 5