1. 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

Explanation

We can use the else block after the end of <u>for loop</u> and <u>while loop</u>. The else block is used to check the successful execution of a loop. If the loop executed successfully without any issues, the else block executes.

2. 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 				

Explanation

We cannot add strings and numbers together using the + <u>operator</u>. Either we can use the + operator to concatenate strings or add <u>numbers</u>.

3. What is the output of the following

$$x = 36 / 4 * (3 + 2) * 4 + 2$$

print(x)

Hint: Python Operators Precedence

• 182.0

- 37
- 117
- The Program executed with errors

Explanation:

To choose the correct answer, You must know the operator precedence and associativity.

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	

Explanation

We cannot use float numbers in range() function. Please refer to <u>How to generate a range of float numbers</u>.

5. What is the output of the following code?

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

print(valueOne)
print(valueTwo)
```

• 10

15

25125

• Error: invalid syntax

Explanation:

Using two multiplication symbols, we can make a power relationship in Python. We call ** operator an exponent operator. For example, the result of expression 5 ** 3 is 125.

6. 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'}

10	5/04/2024, 17.36 Basic Python Quiz For Degithers	
	The program executed with error	

Explanation:

The <u>set</u> is an unordered data structure. Therefore, we cannot access/add/remove its elements by index number.

7. 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

Explanation

The == (Equal To) operator used to compare the values of two objects and The is operator compares the identity of two objects.

8. 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.

	_	_		
•	П	rı	П	ρ

• False

9. What is the output of the following code?

```
for i in range(10, 15, 1):

print( i, end=', ')
```

Hint: Python range function

• 10, 11, 12, 13, 14,

• 10, 11, 12, 13, 14, 15,

Explanation

Remember, the range doesn't include the stop number in the output. Read <u>Python range</u> <u>function</u> for more details.

10. What is the output of the following code?

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

py

• yn

- pyn
- yna

Explanation

Remember, the index always starts from 0. Therefore, str [1:3] is "yn"

11. What is the output of the following code?

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

- Jam
- dno

• maJ

• dnoB semaJ

Explanation:

Pick a range of items starting in the reverse direction starting from index 2 with step 1.

12. 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']

Explanation:

The append() method appends an item to the end of the <u>list</u>. Therefore, we cannot pass the index number to it.

13. What is the output of the following code?

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

 JamesJamesJamesJames 	

- JamesJamesJamesJames
- Error: invalid syntax

Explanation:

We can use * operator to repeat the string n number of times. For example, in the above question, First, we repeated the string two times, and again we repeated the output string three times.

14. 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.

 T
ırue

False

Explanation:

Yes, strings are immutable in Python. You cannot modify a string once created. If you change a string, Python builds a new string with the updated value and assigns it to the <u>variable</u>.

Example:

```
str1 = "first"
id(str1)
str1 = str1+ " Two"
id(str1)
```

Output:

```
140560663354704
140560640152496
```

Earlier str1 was pointing to memory address "140560663354704" now, it's pointing to "140560640152496" which means Python created a new string after you updated it.

15. What is the output of the following code?

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

calculate(5, 6)
```

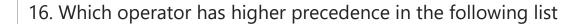
Hint: <u>functions in Python</u>

- 20
- The program executed with errors

• 30

Explanation

In Python, we can set default values for arguments. If the function is called without the argument, the default value is used.



- % (Modulus)
- & (BitWise AND)

• ** (Exponent)

• > (Comparison)

17. 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

Explanation:

If you define a variable with the same name inside the function and global scope, a function will refer to the local variable by default.

18. 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

Explanation

In Python, We can do simultaneous assignments to more than one <u>variable</u>.