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# EXAM 1 REVIEW – PART 2

# Question 1

- What is the output of:
  - `print(2%6)`
  
  - `y = 10`  
`x = y += 2`  
`print(x)`
  
  - `x = 10`  
`y = 50`  
`if (x ** 2 > 100 and y < 100):`  
`print(x, y)`

# Question 1

- What is the output of:
  - `print(2%6)`
  - **2**
  
- `y = 10`  
`x = y += 2`  
`print(x)`
  - *Syntax error : `x = y += 2` is not a valid statement*
  
- `x = 10`  
`y = 50`  
`if (x ** 2 > 100 and y < 100):`  
`print(x, y)`
  - **Nothing**

## Question 2

- Select all the valid String creation statements:
  - `str1 = "str1"`
  - `str1 = 'str1'`
  - `str1 = '''str1'''`
  - `str1 = str("str1")`

## Question 2

- Select all the valid String creation statements:
  - ✓ `str1 = "str1"`
  - ✓ `str1 = 'str1'`
  - ✓ `str1 = '''str1'''`
  - ✓ `str1 = str("str1")`

## Question 3

- What is the output of the following print function?
  - `print('%d %d %.2f' % (11, '22', 11.22))`
- In Python, whatever you enter as input, the `input()` function converts it into a string
  - False
  - True

## Question 3

- What is the output of the following print function?
  - `print( '%d %d %.2f' % (11, '22' 11.22))`
  - Type error – the second %d expects an integer and was given the string '22'
- In Python, whatever you enter as input, the input() function converts it into a string
  - False
  - True

# Question 4

- What is the output of the following code:

```
for i in range(2, -5, -1):  
    print(i, end= ", ")
```

- What is the value of x after the following nested for loop completes its execution?

```
x = 0  
for i in range(10):  
    for j in range(-1, -10, -1):  
        x += 1  
print(x)
```



# Question 4

- What is the output of the following code:

```
for i in range(2, -5, -1):  
    print(i, end= ", ")
```

- **2, 1, 0, -1, -2, -3, -4,**
- What is the value of x after the following nested for loop completes its execution?

```
x = 0  
for i in range(10):  
    for j in range(-1, -10, -1):  
        x += 1  
print(x)
```

- **90**

# Question 5

- What is the value of x?

```
x = 0
while (x < 100):
    x += 2
print(x)
```

# Question 5

- What is the value of x?

```
x = 0
while (x < 100):
    x += 2
print(x)
```

100

## Question 6

- Given the nested if-else structure below, what will be the value of x after code execution completes:

```
x = 0
a = 0
b = -5
if a > 0:
    if b < 0:
        x = x + 5
    elif a > 5:
        x = x + 4
    else:
        x = x + 3
else:
    x = x + 2
print(x)
```

## Question 6

- Given the nested if-else structure below, what will be the value of x after code execution completes:

```
x = 0
a = 0
b = -5
if a > 0:
    if b < 0:
        x = x + 5
    elif a > 5:
        x = x + 4
    else:
        x = x + 3
else:
    x = x + 2
print(x)
```

- 2

# Question 7

- What is the output of the following list operation:

```
aList = [10, 20, 30, 40, 50, 60, 70, 80]
print(aList[2:5])
print(aList[:4])
print(aList[3:])
```

# Question 7

- What is the output of the following list operation:

```
aList = [10, 20, 30, 40, 50, 60, 70, 80]
print(aList[2:5])
print(aList[:4])
print(aList[3:])
```

```
[30, 40, 50]
```

```
[10, 20, 30, 40]
```

```
[40, 50, 60, 70, 80]
```

