Revision (1)

Use the following python statement for question 1 to question 3

A = [[1, 1, 2], [2, 2, 3], [3, 3, 4]]

Question 1

```
print(A[1][1])
print("\n")
```

Output:

Question 2

```
output = A[1] * 3
print(output)
```

Output:

Question 3

```
x = 0
for i in range(2):
   x = x + A[i][i]
   print(x)
print(x)
```

Output:

Revision (2)

Use the following python code for question 1 to question 4.

```
message1 = "Python Revision"
message2 = "Tutorial Class"
number1 = "2 4 6 8 10"
number2 = "19 17 15 13 11"

msg1 = (message1[3:9])
msg2 = (message2[2:6])

print(msg1)
print(msg2)
print(msg1 + msg2)

no1 = (number1[2:5])
no2 = (number2[6:9])
ans = no1 + no2
print(ans)
```

What is the output for the following questions?

Question 1
print(msg1)

Output:

Question 2
print(msg2)

Output:

Question 3
print(msg1 + msg2)

Output:

Question 4
print(ans)

Output:

Revision 3

Use the following python code for question 1 to question 3.

```
def value_input():
   num = float(input("Enter a number:"))
   num = num * 6.6
   return num
```

Question 1
Assuming 5 is entered.

```
n = value_input()
for x in range(11, 18, 2):
   x = x + n
   print(x)

print(n)
```

Output:

Question 2
Assuming 5 is entered.

```
n = int(value_input())
c = 0
for a in range(n, int(n+5), int(n/12)):
   a = a + n
   c += 1
   print("Numbers inside the loop:", a)
print("Average:","{:.5f}".format(a/c))
```

Output:

Question 3
Assuming 18 is entered.

```
n = int(value_input())
c = 0
a = 15
while a  < n:
   a = a + (c * 7.2)
   if a%3 == 0:
      print(a)
   c += 1
print("Average:", a/c)
```

Output:

Revision 4

Using Python While Loop and For Loop to create an decrease loop with the following information.
Note: Remember to display the output values from the loop.

Use the following variables for the coding:
IValue – Initial Value
EValue – End Value
DValue – Decrease Value

While Loop

For Loop

Revision 5

Create a python program by using Functions, While Loop, If-elif statement for the following condition:

a) Create Functions for the following calculation (accept 2 numbers):
   - To calculate Additional
   - To calculate Subtraction
   - To calculate Multiplication
   - To calculate Division

   Note: Name the Functions and variable names appropriately.

b) Use While Loop and If-elif statement for the following conditions:

- Accept 2 integer numbers.
- Call the menu “options” function.
- The program will continue to run until the user keys in ‘5’ to quit from the program.
- Use the appropriate python statement to handle the selection that the user keys in.
- The following table is the expected output from each selection:

Options	Output
1	Answer: ** answer of addition
2	Answer: ** answer of subtraction
3	Answer: ** answer of multiplication
4	Answer: ** answer of division
5	Thank you.
Others	Wrong Input. Please try again.

- ** get the answer from the function respectively.

Note: Use the following start-up code to complete the program:

```
def option():
   print("Option")
   print("1. Addition")
   print("2. Subtraction")
   print("3. Multiplication")
   print("4. Division")
   print("5. Quit")
```

Continue here: