1.) True/False. A while loop will run until the condition is FALSE.
A while loop will run while the condition is TRUE
The loop terminates or ends when the condition becomes FALSE

2.) What does the following code print?

```
int num = 0;
while (num <= 5){

   print(num);

   num += 2;

 }
```

3.) Print the following using the listOfList = [[1,2,3] , [4,5,6] , [7,8,9]]

➔ 1 2 3
➔ 4 5 6
➔ 6 7 8

```
for rowIndex in range(0,3):
    for colIndex in range(0,3):
        print( listOfList[rowIndex][colIndex], end=' ')


    print()
```

4.) Using the listOfList = [[1,2,3] , [4,5,6] , [7,8,9]]

➔ 1 2 3
➔ 4 5 6
➔ 7 8 9

AddCol1 = 12 coordinates (0,0) , (1,0) , (2,0) y stays same == 0
AddCol2 = 15 coordinates (0,1) , (1,1) , (2,1) y stays same == 1
AddCol3 = 18 coordinates (0,2) , (1,2) , (2,2) y stays same == 2

```
listOfList = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]

AddCol1 = 0
AddCol2 = 0
AddCol3 = 0

for x in range(0,3):
   for y in range(0,3):
      if y == 0:
         AddCol1 = AddCol1 + listOfList[x][y]
      elif y == 1:
         AddCol2 = AddCol2 + listOfList[x][y]
      elif y == 2:
         AddCol3 = AddCol3 + listOfList[x][y]


print("AddCol1: ", AddCol1)  #12
print("AddCol2: ", AddCol2 ) #15
print("AddCol3: ", AddCol3 ) #18
```

5.) Using the listOfList = [[1,2,3] , [4,5,6] , [7,8,9]]

➔ 1 2 3
➔ 4 5 6
➔ 7 8 9

AddRow1 = 6 coordinates (0,0) , (0,1) , (0,2) x stays same x== 0
AddRow2 = 15 coordinates (1,0) , (1,1) , (1,2) x stays same x== 1
AddRow3 = 24 coordinates (2,0) , (2,1) , (2,2) x stays same x== 2

```
listOfList = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]

AddRow1 = 0
AddRow2 = 0
AddRow3 = 0

for x in range(0,3):
   for y in range(0,3):
      #print( listOfList[x][y], end=' ')
      if  x == 0:
         AddRow1 = AddRow1 + listOfList[x][y]
      elif x == 1:
         AddRow2 = AddRow2 + listOfList[x][y]
      elif x == 2:
         print( listOfList[x][y], "  ")
         AddRow3 = AddRow3 +listOfList[x][y]

print("AddRow1: ", AddRow1) #11
print("AddRow2: ", AddRow2) #14
print("AddRow3: ", AddRow3) #17
```