

Assignment Day 3 | 10th December 2020

Question 1

Use IF ELSE and ELIF to write a program in python

Example:

```
var = 100
if var == 200:
    print
    print var
elif var == 150:
    print
    print var
elif var == 100:
    print
    print var
else:
    print
    print var
print
```

Output:

```
3 - Got a true expression value
100
Good bye!
```

Question 2

Use For Loop to Print Prime Numbers in between 1 to 1000

Python Program to print Prime Numbers from 1 to 100

```
Number = 1
while(Number <= 100):
    count = 0
    i = 2
    while(i <= Number//2):
        if(Number % i == 0):
            count = count + 1
            break
        i = i + 1
    if (count == 0 and Number != 1):
        print(" %d" %Number, end = ' ')
    Number = Number + 1
```

Output:

```
===== RESTART: /Users/suresh/Documents/printPrimes.py =====
 2  3  5  7 11 13 17 19 23 29 31 37 41 43 47 53 59
 61 67 71 73 79 83 89 97
>>>
```

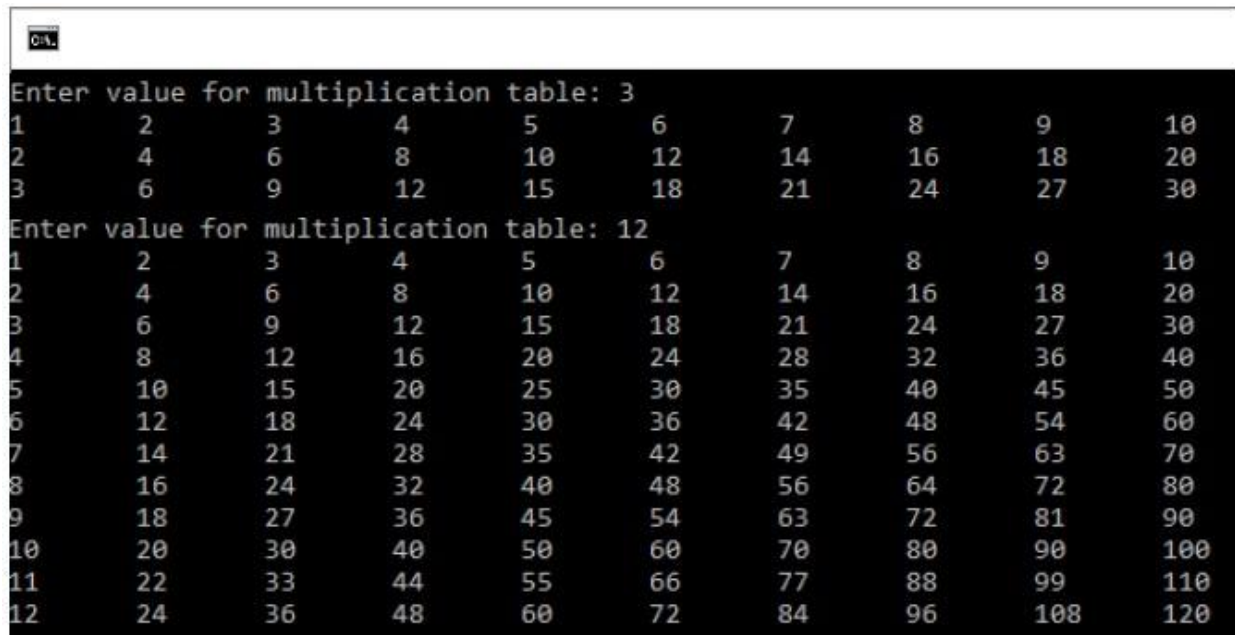
Question 3

Write a program for printing the tables from 1,10 using Nested For Loop

```
def mathTable(column, tuple):
    for column in range(1, 10):
        for tuple in range(1, 10):
            print("%6d" % (column * tuple), end = " ")
        print("")

x = int(input("Enter the value of the multiplication table: "))
column = ""
tuple = ""
print(mathTable(column, tuple))
```

Output:



```
Enter value for multiplication table: 3
1      2      3      4      5      6      7      8      9      10
2      4      6      8      10     12     14     16     18     20
3      6      9      12     15     18     21     24     27     30
Enter value for multiplication table: 12
1      2      3      4      5      6      7      8      9      10
2      4      6      8      10     12     14     16     18     20
3      6      9      12     15     18     21     24     27     30
4      8      12     16     20     24     28     32     36     40
5      10     15     20     25     30     35     40     45     50
6      12     18     24     30     36     42     48     54     60
7      14     21     28     35     42     49     56     63     70
8      16     24     32     40     48     56     64     72     80
9      18     27     36     45     54     63     72     81     90
10     20     30     40     50     60     70     80     90     100
11     22     33     44     55     66     77     88     99     110
12     24     36     48     60     72     84     96     108    120
```

Question 4

Write a program to Print X Prime Numbers using While Loop starting from 0, and take the Input of X from the user

```
wschalle@WillyLaptop: ~/Linuxide/Python
File Edit View Search Terminal Help
number = input('Please enter a number:')

i = 2
toggle = 0

while i < number:
    if number%i == 0:
        toggle = 1
        print ("Your number is NOT a prime number!");
    i = i + 1
if toggle == 0:
    print ("Your number is a prime number!");

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```

1,1 All