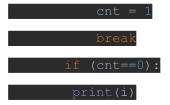
Practical 2

Aim: Understanding control structure for Python programming language

A. Write a Python program to find number of prime numbers between 1 to n where n is defined by user.

Program/Procedure:

```
n = int(input("Enter the value of n : "))
for i in range(1,n+1) :
if(i%2!=0) :
   sum = sum + i
print("The prime numbers are : ")
q = int(input("Enter the range 2 of a number : "))
for i in range(p,q+1) :
if(i==1) :
 elif(i==2):
 print(i)
else :
  cnt = 0
for j in range(2,i):
 if(i%j!=0):
  continue
else:
```



Results:

```
Enter the value of n : 5

The sum of odd numbers are : 9 and the average of odd numbers are : 1.8

The prime numbers are :

Enter the range 1 of a number : 1

Enter the range 2 of a number : 10

1 is Neither Prime Nor Composite

2

3

5

7
```

Conclusion:

In this practical i came to know about the working of the for-loop and also i have learn't about the concept of the range in for-loop and also i have learn't about prime numbers logic and how to get prime numbers in between the range.

Aim:

B. Write a Python program to test whether a passed letter is a vowel or not using vowel (character) function.

Program/Procedure:

```
a = input("Enter the character : ")
def vowel(a) :
vw = ['a','e','i','o','u','A','E','I','O','U']
if a in vw :
print(a,"is Vowel")
 else :
 print(a,"is Consonant")
vowel(a)
b = input("Enter the string : ")
def vowels(b) :
c=0
vw = ['a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U']
for i in b :
if(i in vw) :
 print(i)
  c = c+1
 return c
print(vowels(b))
```

Results:

```
Enter the character : a
a is Vowel
Enter the string : france
a is present
e is present
The no. of vowels in string france is : 2
```

Conclusion:

In this practical i have learned about the working of the if-else statement and i have implemented the vowel method to know about that whether a character is vowel or not and i have also learned about the working of the for loop and i came to know that how for-loop differs from the while loop.

Signature:

Date: