

ASSIGNMENT 4

September 27, 2020

```
[ ]: """  
NAME:SHUBHAM TAKNAKHAR  
CLASS:MCA SY  
ROLL NO:54  
"""
```

```
[1]: # WAP to read a character until a * is encountered. Also count the number of  
      ↪upper case, lower case and numbers entered by the user  
lower,upper,num=0,0,0  
inputs=''  
while '*' not in inputs:  
    inputs=input("Enter Anything:")  
    for i in inputs:  
        if i.isupper():  
            upper+=1  
        elif i.islower():  
            lower+=1  
        elif i.isnumeric():  
            num+=1  
print("upper:{}\nlower:{}\nnumeric:{}".format(upper,lower,num))
```

```
upper:3  
lower:3  
numeric:3
```

```
[2]: # WAP to print the following pattern  
nums=[]  
for i in range(1,6):  
    nums.append(i)  
    print((" "*(5-i)),*nums)
```

```
    1  
  1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5
```

```
[3]: # WAP to calculate sum of cubes of numbers from 1-n.
n=int(input())
sums=0
for i in range(1,n+1):
    sums+= i*i*i
print("SUM OF CUBES FROM 1 TO {} IS : {}".format(n,sums))
```

SUM OF CUBES FROM 1 TO 10 IS : 3025

```
[6]: # WAP that prompts the user to enter the numbers. The process will repeat until
    ↳ user enters -1, Finally the program prints the count of prime numbers and
    ↳ composite numbers.
def isPrime(n):
    if n > 3:
        if n%2==0 or n%3==0:
            return 0
        return 1
prime,composite,inputs=0,0,0
while inputs != -1:
    inputs=int(input())
    if inputs== -1:
        break
    elif isPrime(inputs):
        prime+=1
    else:
        composite+=1
print("PRIME COUNT:{}\nCOMPOSITE COUNT:{}".format(prime,composite))
```

PRIME COUNT:2

COMPOSITE COUNT:3