**ASSIGNMENT 12-11-20**

1)

a=input("Enter the string:")

w,c,p,v=0,0,0,0

words=a.split(" ")

for i in range(len(words)):

w=w+1

b=a.replace(" ","")

for j in range(len(b)):

if b[j]=='a' or b[j]=='e' or b[j]=='i' or b[j]=='o' or b[j]=='u' or b[j]=='A' or b[j]=='E' or b[j]=='I' or b[j]=='O' or b[j]=='U':

v=v+1

elif (b[j]>='A' and b[j]<='Z') or (b[j]>='a' and b[j]<='z'):

c=c+1

else:

p=p+1

print("Number of words:",w)

print("Number of vowels:",v)

print("Number of consonents:",c)

print("Number of punctuations:",p)

**OUTPUT:**

Enter the string:Hello world!!! I am here.

Number of words:5

Number of vowels:7

Number of consonents:10

Number of punctuation:4

2)

print("Non-fibonacci numbers upto range:")

a=2

b=3

temp=0

n=int(input('Enter the range:'))

c=0

while(c<n):

dif=b-a-1

if(dif>0):

for i in range(1,dif+1):

if c<n:

print(a+i,end=" ")

c+=1

temp=a+b

a=b

b=temp

**OUTPUT:**

Non-fibonacci numbers upto range:

Enter the range: 10

4 6 7 9 10 11 12 14 15 16

3)

The code snippet:

x=input("Enter a number: ")

print(x\*3)

Output when x is given as 25:

252525

Here x is taken as a string input. So when we are printing x\*3 we are actually printing x 3 times successively and \* is actually multiplying the string 3 times.

4)

The way to implement "switch" in Python is to use dictionary mapping. Dictionary is used to store one to one key-value pair. When we call the key later, the value associated with is returned.

Example:

def switchdemo(argument):

    switcher = {

        1: "January",

        2: "February",

        3: "March",

        4: "April",

        5: "May",

        6: "June",

        7: "July",

        8: "August",

        9: "September",

        10: "October",

        11: "November",

        12: "December"

    }

    print switcher.get(argument, "Invalid month")

When we give a value in place of argument, then that argument is searched for switcher in switchdemo function and that respective value is returned. If that key is not found then we get "Invalid month" as output. This is equivalent as "default" case in "switch".