```
In [32]: #1) Write a Python program that prints all the numbers from 0 to 6 except 3 and 6
         for y in range(7):
             if y==3 or y==6:
                 continue
             else:
                 print(y)
         0
         1
         2
         4
         5
 In [2]: #2) Write a program to accept a number from a user and calculate the sum of all r
         x=int(input("Enter a number:"))
         count=0
         for y in range(1,x+1):
             count=count+y
         print(count)
         Enter a number:4
         10
In [13]: #3) Write a program to print multiplication table of a given number(input).
         def multiplication_table(x,y):
             for z in range(1,y):
                 print("{}*{}={}".format(x,z,x*z))
In [14]: multiplication_table(2,11)
         2*1=2
         2*2=4
         2*3=6
         2*4=8
         2*5=10
         2*6=12
         2*7=14
         2*8=16
         2*9=18
         2*10=20
```

```
In [9]: #4) Write a program to count the total number of digits in a number using a while
#For example, the number is 75869, so the output should be 5.
num=int(input("Enter the number:"))
count = 0
while num!=0:
    count=count+1
    num//=10

print("Number of digits: " + str(count))
Enter the number:123456123456
Number of digits: 12
```

## In [5]: #5) Write a Python program to guess a number between 1 to #Example: #User is prompted to enter a guess. If the user guesses wrong then the prompt app #successful guess, user will get a "Well guessed!" message, and the program will while True: x=int(input("Enter a number between 1 to 20:")) if x!=6: print("Try the guess again") else: print("Well Guessed") break

```
Enter a number between 1 to 20:3
Try the guess again
Enter a number between 1 to 20:9
Try the guess again
Enter a number between 1 to 20:8
Try the guess again
Enter a number between 1 to 20:6
Well Guessed
```

```
task3 - Jupyter Notebook
In [13]: #6) Write a Python program which iterates the integers from 1 to 60. For multiple
         #and for the multiples of five print "Buzz". Fornumbers which are multiples of bot
         for y in range(1,61):
              if y\%3==0 and y\%5==0:
                  print("fizzBuzz")
              elif y%3==0:
                  print("fizz")
              elif y%5==0:
                  print("Buzz")
              else:
                  print(y)
         1
          2
         fizz
         4
         Buzz
         fizz
         7
         8
         fizz
         Buzz
         11
         fizz
         13
         14
         fizzBuzz
         16
         17
         fizz
         19
         Buzz
         fizz
         22
         23
         fizz
          Buzz
         26
         fizz
         28
         29
```

fizzBuzz

31 32 fizz 34 Buzz fizz 37 38 fizz Buzz 41 fizz 43 44

```
fizzBuzz
46
47
fizz
49
Buzz
fizz
52
53
fizz
Buzz
56
fizz
58
59
fizzBuzz
```

```
In [26]: #7) Write a Python program that accepts a string and calculate the number of digi
         #Example:
         #Input
         #Python 3.2
         #Output
         #Letters 6
         #Digits 2
         x=str(input("enter a string:"))
         p=q=0
         for y in x:
             if y.isdigit():
                 p=p+1
             elif y.isalpha():
                 q=q+1
             else:
                  continue
         print("No. of Letters in the given String", q)
         print("No. of Digits in the given string", p)
```

```
enter a string:dineshkumar1999
No. of Letters in the given String 11
No. of Digits in the given string 4
```

```
In [3]: #8) Write a Python program to check the validity of password input by users.
#Validation:
#At least 1 letter between [a-z] and 1 letter between [A-Z]
#At least 1 number between [0-9].
#At least 1 character from [$#@].
#Minimum length 6 characters.
#Maximum length 16 characters.
```

```
In [34]: x=input("Enter a Password:")
         L=N=U=S=0
         sc=['$','#','@']
         y=len(x)
         if y>=6 and y<=16:
             for i in x:
                  if i.isupper():
                     U=U+1
                  if i.islower():
                      L=L+1
                  if i.isdigit():
                      N=N+1
                  if i in sc:
                      S=S+1
         if L>=1 and U>=1 and N>=1 and S>=1 and L+U+N+S==len(x):
             print("Password is Valid")
         else:
             print("Password is Invalid")
```

Enter a Password:DineshKumar@1999
Password is Valid

```
In [6]: #9) Write a program in Python to reverse a word by using while loop.
    x=input("Enter the String:")
    y=""
    count=len(x)
    while count>0:
        y=y+x[count-1]
        count=count-1
    print ("The Reverse of the given String is:",y)
```

Enter the String:dineshkumar
The Reverse of the given String is: ramukhsenid

```
In [26]: #10) Write a program which takes 10 integers as input using loop and print their
x=[1,2,3,4,5,6,7,8,9,10]
count=0
for y in x:
    count=count+y
print(count)
```

55

In [27]: #11) Write a program which takes integer inputs from user until he/she presses "d

```
#input). Print average and product of all numbers.
         list=[]
         newlist=[]
         p=1
         while True:
             x=input('Enter the numbers:')
             if x=='q':
                  print("Exit")
                 break
             list.append(x)
         for i in list:
             a=int(i)
             newlist.append(a)
         for j in newlist:
             p=p*j
         total=sum(newlist)
         print("The Average of the Numbers is:{}".format(total/len(newlist)))
         print("The Product of the Numbers is:{}".format(p))
         Enter the numbers:2
         Enter the numbers:3
         Enter the numbers:6
         Enter the numbers:7
         Enter the numbers:7
         Enter the numbers:q
         Exit
         The Average of the Numbers is:5.0
         The Product of the Numbers is:1764
In [29]: #12) Write a Python program which will remove all digits or any other characters
         #Example:
         #Input:
         #"asd12.asd22"
         #Innomatics
         #Output:
         #'asdasd'
         x=input("Enter the String:")
         1=""
         for y in x:
             if y.isalpha():
                 1=1+y
             else:
                  continue
         print("The Letters in the given String", 1)
         Enter the String:dinesh123
         The Letters in the given String dinesh
```

```
In [30]: #13) Write a python program to find the sum of all even numbers from 0 to 10.
    sum=0
    for x in range(0,11):
        if x%2==0:
            sum=sum+x
        else:
            continue
    print("The Sum is :",sum)
```

The Sum is: 30

```
In [31]: #14) Write a python program which will accept a digit and print
         #All the numbers before it till 0
         #Example:
         #Input:
         #5
         #Output:
         #4
         #3
         #2
         #1
         #0
         y=int(input("Enter the number:"))
         print("The number decreasing till 0")
         while y>0:
             print(y-1)
             y=y-1
```

```
Enter the number:10
The number decreasing till 0
9
8
7
6
5
4
3
2
1
```

```
In [32]: #15) Create a dynamic calculator which will run continually till you press "c".
         a=1
         while a>=1:
             x=(input("Enter first number : "))
             if x=='C' or x=='c':
                 print("End")
                 break
             y=(input("Enter the Sign : "))
             z=float(input("Enter second number : "))
             if y=='+':
                  print("{} + {} = {} ".format(float(x),z,float(x)+z))
             elif y=='-':
                 print("{} - {} = {} ".format(float(x),z,float(x)-z))
             elif y=='*':
                 print("{} * {} = {} ".format(float(x),z,float(x)*z))
             elif y=='/':
                  print("{} / {} = {} ".format(float(x),z,float(x)/z))
             elif y=='%':
                  print("{} / {} = {} ".format(float(x),z,float(x)%z))
             elif y=='**':
                  print("{}^{} = {}^{} .format(float(x),z,float(x)**z))
             else:
                 print("Invalid Sign")
         a=a+1
```

```
Enter first number: 2
Enter the Sign: *
Enter second number: 3
2.0 * 3.0 = 6.0
Enter first number: 2
Enter the Sign: +
Enter second number: 6
2.0 + 6.0 = 8.0
Enter first number: 3
Enter the Sign: /
Enter second number: 4
3.0 / 4.0 = 0.75
Enter first number: c
End
```

```
In [ ]:
```