```
In [1]: | print("Enter the number")
        a=int(input())
        if a%2 == 0:
            print(a,"is Even")
        else:
            print(a,"is Odd")
        Enter the number
        3 is Odd
In [2]: | a=float(input("Enter the temperature in Centigrade : "))
        f=(a*1.8)+32
        print("The temperature in Fahrenheit is",f)
        Enter the temperature in Centigrade : -9.8
        The temperature in Fahrenheit is 14.36
        a = int(input("Enter how many numbers to be multiplied :"))
In [3]:
        b=1 #we cant declare in loop
        for i in range (a):
            x=float(input("Enter the number to be multiplied :"))#it can be a float since
            b=b*x
        print("The product of set of real number is ",b)
        Enter how many numbers to be multiplied :3
        Enter the number to be multiplied :2
        Enter the number to be multiplied :4
        Enter the number to be multiplied :6
        The product of set of real number is 48.0
In [4]: def factorial(n):
            if n == 1:
                return n
            else:
                return n*factorial(n-1)#factorail (n-1) will be in loop until the value
        a = int(input("Enter the number : "))#we can't use float
            print("We can't find factorial for negative integer")
        elif a==0:
            print("The factorial of 0 is 1")
        else:
            b=factorial(a)
            print("The factorail of",a,"is",b)
        Enter the number: 4
```

localhost:8888/notebooks/Assignment-0.ipynb#

The factorail of 4 is 24

```
In [5]: | a=['a','e','i','o','u','p']
        b=input("Element to be found in list: ")
        c=len(a)
        if b not in (a):
            print("Element not present in list")
        else:
            for i in range (0,c):
                 if b==a[i]:
                     print("The element",b,"is at index position",i)
        Element to be found in list: p
        The element p is at index position 5
In [6]: a=[98,100,45,76,32,87,12,7]
        a.sort()
        print("List ofter sorting",a)
        b=int(input("Enter the element to be searched : "))
        i=0#index starting position
        j=(len(a)-1)#index ending position
        while(i<=j):
            x=(i+j)//2
            if b==a[x]:
                print("Element found at index position",x)
            elif(b<a[x]):</pre>
                 j=x-1
            else:
                 i=x+1
        else:
            print("Element not found in the list")
        List ofter sorting [7, 12, 32, 45, 76, 87, 98, 100]
        Enter the element to be searched : 5
        Element not found in the list
```

```
In [7]: |list = []
        a = int(input("How many elements do you want in list"))
        print("Enter the numbers in list")#if all number are negative we need to use min
        for i in range(a):
            x = int(input())
            list.append(x)
        b = 0#If all numbers are positive we can declare b=0.
        for x in list:
            if x > b:
                b = x
        print("The largest number in list is", b)
        How many elements do you want in list4
        Enter the numbers in list
        5
        1
        The largest number in list is 5
In [8]: |list = []
        a = int(input("Enter how many elements need to be in list "))
        for i in range (a):
            x=input()
            list.append(x)
        print(list)
        b = int(input("Enter the index number in a list to be removed "))
        if b<=(a-1):
            print("The element present in index",b,"is",list.pop(b))
            print("The new list is",list)
        else:
            print("index range doesnot exits")
        Enter how many elements need to be in list 3
        e
        ['q', 'e', 'r']
        Enter the index number in a list to be removed 2
        The element present in index 2 is r
        The new list is ['q', 'e']
```

```
In [9]: a={
             "Name":"Pradeep",
             "age":24,
             "mail id":"pradeep@gmail.com",
             "address": "chennai"
         dict.items(a)
Out[9]: dict_items([('Name', 'Pradeep'), ('age', 24), ('mail id', 'pradeep@gmail.com'),
         ('address', 'chennai')])
In [10]: |list = []
         a = int(input("Enter how many elements need to be in list "))
         for i in range (a):
             x=int(input("Enter element in list: "))
             list.append(x)
         i=0
         j=0
         while i<a:
             j=j+list[i]
             i+=1
         print("The average of numbers is",j/a)
         Enter how many elements need to be in list 3
         Enter element in list: 1
         Enter element in list: 2
         Enter element in list: 3
         The average of numbers is 2.0
 In [ ]:
```