```
//////////////////////////////////////////
1>
txt = "Hi there Sam!"
s = txt.split()
print(s)
////////////////////////
2>
txt = "The diameter of {planet}is {diameter} kilometers".format(planet = "Earth",
diameter = 12742)

print(txt)
//////////////////////////
4.1>
      import numpy as np
        array=np.zeros(10)
        print("An array of 10 zeros:")
        print(array)
////////////////////////////
4.2>
      import numpy as np
      array=np.ones(10)*5
      print("An array of 10 fives:")
      print(array)
//////////////////////////////////
5>
      import numpy as np
        array=np.arange(20,35,2)
      print("Array of all the even integers from 20 to 35")
      print(array)
//////////////////////////////////
6>
      import numpy as np
      x =  np.arange(0,9).reshape(3,3)
      print(x)
//////////////////////////////////
7>
      import numpy as np
        a = np.array([1, 2, 3])
      b = np.array([4, 5, 6])
      g = np.concatenate(a,b)
      print (g)
//////////////////////////////////////
8>
          import pandas as pd
          data = [['sibilingam',22], ['petchi',22], ['lokesh', 21]]
          df = pd.DataFrame(data, columns = ['Name', 'Age'])
          print(df )
//////////////////////////////////////
9>
      import pandas as pd
        per1 = pd.date_range(start ='1-1-2023',end ='02-10-2023')
        for val in per1:
      print(val)
//////////////////////////////////////////
10>
      import pandas as pd
        lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
        df = pd.DataFrame(lists, columns =['Tag', 'char','num'])
`     print(df )
```

----------thank you--------------------*---------*-----------------