

In [42]:

```
print ("Hello World")

numbr = 1947
Text = 'Pakistan is one of the best countries since'
Text2 = 'though it is all about Quaid e Pakistan'
print ("\n",Text, " ", numbr, " ",Text2)
```

Hello World

Pakistan is one of the best countries since 1947 though it is all about Quaid e Pakistan

In this Part I am going to Use List

Task#1: Define “names” and “height” lists that contain name and height of your friends respectively. Find the total number of entries in list, maximum height, and minimum height with their names and find the average height of your friends.

In [67]:

```
My_Friend = ['Masroor Soomro', 'Haris Shafeeq', 'Awais Javed', 'Hamza Ashraf', 'Riaz', 'Zaman Ali']
Height = [5.5, 4.5, 5.6, 5.3, 4.8, 4.5]

len(My_Friend)
len (Height)

MaxH =Height.index(max(Height))
MinH = Height.index(min(Height))

#In this portion I am finding Maximum and Minimum Hieght with Names.

print("Maximum hight is\t", max(Height) , My_Friend[MaxH])
print("Minimum hight is\t", min(Height), My_Friend[MinH])

#I am going to find average
Numbers = len (Height)
Sum = sum(Height)
Average = Sum/Numbers

print("Averge of Height is \t", Average)
```

Maximum hight is 5.6 Awais Javed
Minimum hight is 4.5 Haris Shafeeq
Averge of Height is 5.033333333333333

Task#02: Develop a BMI function in python programming language that gets the weight and height as inputs and show that whether input user is underweight, normal weight, overweight or obese

In [91]:

```
print("enter Your Weight ")
weight = float(input())
print("enter Your Height ")
height = float(input())

def BMI(Height, Weight):
    Height_m = Height/3.281
    bmi = Weight/Height_m**2
    print("your BMI is = ", bmi)
    if bmi <=18.5:
        print("Under weight")
    elif bmi >= 18.5 and bmi <=24.9:
        print ("Normal weight")
```

```

elif bmi>24.9 and bmi <=30:
    print ("Overweight")
elif bmi >30:
    print ("Obese")

```

BMI(height, weight)

```

enter Your Weight
60
enter Your Hight
5.6
your BMI is = 37.15357142857143
Obese

```

Task#03: Write a function that takes input a number, which is temperature in degree Celsius and return the temperature in kelvin and Fahrenheit.

In []:

```

print("enter Temperature in Degree Celsius ")
Temp = float(input())

def Temp_Conv(Input_Temp):
    Temp_in_Frh = Input_Temp * (9/5) + 32 #this is formula for Farh
    Temp_in_Kel = Input_Temp + 273.15 #this is formula for Kel

    print("Temperature In Kelvin is = \t", Temp_in_Kel, "\nTemperature in Fahrenheit is
= \t", Temp_in_Frh)

Temp_Conv(Temp)

```

```

enter Temperature in Degree Celsius
33
Temperature In Kelvin is = 306.15
Temperature in Fahrenheit is = 91.4

```

Task#04: Create a list of even numbers and odd numbers with the help of for loop and append function. Than combine both lists together.

In [115]:

```

Even = []
Odd = []
combin = []
e=0
o = 0
for k in range(20):
    if(k%2==0):
        Even.append(k)
    else:
        Odd.append(k)

print("list of Odd number ", Odd, )
print("list of Odd number ", Even, )

combine = Even + Odd
print("Combined list is : " ,combine)

```

```

list of Odd number [1, 3, 5, 7, 9, 11, 13, 15, 17, 19]
list of Odd number [0, 2, 4, 6, 8, 10, 12, 14, 16, 18]
Combined list is : [0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 1, 3, 5, 7, 9, 11, 13, 15, 17, 19]

```

In []: