**Assignment # 2**

**Q1: Write a program which takes 5 inputs from user for different subject’s marks, total it and generate mark sheet using grades?**

1 sub1 = int(input("Enter marks of the first subject: "))

2 sub2 = int(input("Enter marks of the second subject: "))

3 sub3 = int(input("Enter marks of the third subject: "))

4 sub4 = int(input("Enter marks of the fourth subject: "))

5 sub5 = int(input("Enter marks of the fifth subject: "))

6 total\_marks = (sub1+sub2+sub3+sub4+sub4)

7 avg = total\_marks /5

8 if (avg > = 90):

9 print ("Grade: A")

10 elif ( avg > = 80 & avg < 90):

11 print ("Grade: B")

12 elif ( avg > =70 & avg < 80):

13 print ("Grade: C")

14 elif ( avg > = 60 & avg < 70):

15 print ("Grade: D")

16 else:

17 print ("Grade: F")

**Q2: Write a program which take input from user and identify that the given number is even or odd?**

1 num = int (input ("Enter a number: "))

2 e\_o = num % 2

3 if e\_o > 0:

4 print ("This is an odd number.")

5 else:

6 print ("This is an even number.")

**Q3: Write a program which print the length of the list?**

1 # Python program to print the length of the list

2 n = len([10, 20, 30])

3 print("The length of list is: ", n)

**Q4: Write a Python program to sum all the numeric items in a list?**

1 lst = []  
2 num = int(input('How many numbers: '))  
3 for n in range(num):  
4 numbers = int(input('Enter number '))  
5 lst.append(numbers)  
6 print("Sum of elements in given list is :", sum(lst))

**Q5: Write a Python program to get the largest number from a numeric list.**

1 # Python program to find largest

2 # number in a list

3 # list of numbers

4 list1 = [10, 20, 4, 45, 99]

5 # sorting the list

6 list1.sort()

7 # printing the last element

8 print("Largest element is:", list1[-1])

1 # Python program to find largest

2 # number in a list

3 # list of numbers

4 list1 = [10, 20, 4, 45, 99]

5 # printing the maximum element

6 print("Largest element is:", max(list1))

**Q6: Take a list, say for example this one: a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89] and write a program that prints out all the elements of the list that are less than 5.**

1 a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]

2 # prints all elements in a which are less than 5  
3 for i in a:  
4 if i < 5:  
5 print(i)