Python Programming Language

Assignment # 2

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

# -\*- coding: utf-8 -\*-

"""

this code is written in Spyder IDE of Python

Write a program which takes 5 inputs from user for different subjects

marks,

total it and generate mark sheet using grades?

"""

en=float(input("Enter your English subject marks: ")) # en-English

mt=float(input("Enter your Mathematics subject marks: ")) # mt-Mathematics

ph=float(input("Enter your Physics subject marks: ")) # ph-Physics

ch=float(input("Enter your Chemistry subject marks: ")) # ch-Chemsitry

Is=float(input("Enter your Islamiat subject marks: ")) # Is-lamiat

obt\_mrks=en+mt+ph+ch+Is;

print("Your obtained marks are", obt\_mrks)

total=500;

prc\_en=en\*100/total;

prc\_mt=mt\*100/total;

prc\_ph=ph\*100/total;

prc\_ch=ch\*100/total;

prc\_Is=Is\*100/total;

print("Your percentage in English is "+str(prc\_en))

print("Your percentage in Mathematics is "+str(prc\_mt))

print("Your percentage in Physics is "+str(prc\_ph))

print("Your percentage in Chemistry is "+str(prc\_ch))

print("Your percentage in Islamiat is "+str(prc\_Is))

pt=(obt\_mrks)\*100/total;

print("Your percentage is ", pt)

# Grad analysis

if pt >= 80 and pt <=100: print("Congratulations! You have secured Grade A-1")

elif pt <=70 and pt>=60: print("Congratulations You have secured Grade B")

elif pt <60 and pt>50: print("Congratulations You have secured Grade C")

elif pt <50 and pt>=40: print("Congratulations You have secured Grade D")

elif pt <40 and pt>=30: print("Congratulations You have secured Grade E")

else: print("You have failed in examinations")

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

# -\*- coding: utf-8 -\*-

"""

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Write a program which take input from user and

identify that the given number is even or odd?

"""

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

mod = num % 2

if mod > 0:

print("This is an odd number.")

else:

print("This is an even number.")

1. **Write a program which prints the length of the list?**

list\_len=['Eng','chem','bio','maths','phy'];

print("The length of list is ", len(list\_len))

1. **Write a Python program to sum all the numeric items in a list?**

lst = []

num = int(input('How many numbers: '))

for n in range(num):

numbers = int(input('Enter number '))

lst.append(numbers)

print("Sum of elements in given list is :", sum(lst))

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

lst = []

num = int(input('How many numbers: '))

for n in range(num):

numbers = int(input('Enter number '))

lst.append(numbers)

print("Maximum element in the list is :", max(lst))

1. **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.**

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

num = [x for x in a if x < 5]

print(num)