PROBLEN SOLVING AND PYTHON PROGRAMMING RECORD

PYTHON PROGRAMMING USING CONDITIONAL STATEMENTS

3(a): EVEN OR ODD

CODING:

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

if(num%2==0):

print("the given number is even")

else:

print("the given number is odd")

OUTPUT:

enter a number:29

the given number is odd

3(b):STUDENT GRADE ANALYSIS

CODING:

M1=int(input("enter M1:"))

M2=int(input("enter M2:"))

M3=int(input("enter M3:"))

M4=int(input("enter M4:"))

M5=int(input("enter M5:"))

avg=(M1+M2+M3+M4+M5)/5

print(avg)

if avg>=90:

print("your grade is o")

elif avg>=80 and avg<90:

print("your grade is A+")

elif avg>=70 and avg<80:

print("your grade is A")

elif avg>=60 and avg<70:

print("your grade is B+")

elif avg>=50 and avg<60:

print("your grade is B")

else:

print("your grade is u")

OUTPUT:

enter M1:100

enter M2:100

enter M3:100

enter M4:100

enter M5:100

100.0

your grade is o

3(c):TO FIND THE GIVEN CHARCTER IS ALPHABET OR NUMBER OR SPACE

CODING:

ch = input("Please Enter Your Own Character : ")

if((ch >= 'a' and ch <= 'z') or (ch >= 'A' and ch <= 'Z')):

print("The Given Character ", ch, "is an Alphabet")

elif(ch >= '0' and ch <= '9'):

print("The Given Character ", ch, "is a Digit")

else:

print("The Given Character ", ch, "is a Special Character")

OUTPUT:

Please Enter Your Own Character : 29

The Given Character 29 is a Digit

3(d):POSITIVE OR NEGATIVE OR ZERO

CODING:

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

if num > 0:

print("It is positive number")

elif num == 0:

print("It is Zero")

else:

print("It is a negative number")

OUTPUT:

Enter a number: 2915

It is positive number

3(e): READ A CHARCTER FROM USER AND CHANGE INTO UPPER/LOWER CASE

CODING:

ch=input("enter a character:")

if(ch >= 'A' and ch <= 'Z'):

print(ch.lower())

else:

print(ch.upper())

OUTPUT:

enter a character:D

d

enter a character:d

D

3(f): BONUS CALCULATION

CODING:

salary=int(input("enter your salary:"))

if(salary<=10000):

discount=0.1

else:

discount=0.12

bonus=salary\*discount

print(bonus)

OUTPUT:

enter your salary:20000

2400.0