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**Roll**-40

2nd year 3rd sem

Assignment 3

**Program 1**

a=(int)(input("Enter a number "))

b=(int)(input("Enter a number "))

if a>b:

    print("First number is greater")

if a<b:

    print("Second number is greater")

if a==b:

    print("Both numbers are equal")

**Output**

Enter a number 20

Enter a number 19

First number is greater

**Program 2**

hr=(int)(input("Enter hours worked "))

rate=(int)(input("Enter rate per hour "))

given=0.0

if hr>40:

    t=hr-40

    given+=(t\*1.5\*rate)

    given+=(hr\*rate)

else:

    given+=(hr\*rate)

print(given)

**Output**

Enter hours worked 41

Enter rate per hour 2

85.0

**Program 3**

t=(float)(input("Enter a score between 0.0 and 1.0 "))

if t>1.0:

    print("Error ")

elif t>=0.9:

    print("A")

elif t>=0.8 and t<0.9:

    print('B')

elif t>=0.7 and t<0.6:

    print('C')

elif t>=0.6 and t<0.7:

    print('D')

else:

    print('F')

**Output**

Enter a score between 0.0 and

1.0 0.89

B

**Program 4**

b=(input("Enter C for Celsius or F for Fahrenheit "))

a=(int)(input("Enter a Temperature "))

t=0

if b=='C':

    t=((9\*a)/5 +32)

    print("In Fahrenheit temperature is ",t)

elif b=='F':

    t=5\*(a-32)/9

    print("In Celsius temperature is ",t)

else :

    print('Wrong choice entered')

**Output**

Enter C for Celsius or F for Fahrenheit C

Enter a Temperature 32

In Fahrenheit temperature is

89.6

**Program 5**

a=(int)(input("Enter a number "))

if a>0:

    print("Number is positive")

elif a<0:

    print("Number is negative")

else :

    print("Number is zero")

Output

Enter a number 1

Number is positive

**Program 6**

a=(int)(input("Enter a number "))

if a&1:

    print("Number is odd")

else:

    print("Number is even")

Output

Enter a number 5

Number is odd

**Program 7**

a=(int)(input("Enter a number "))

b=(int)(input("Enter a number "))

c=(int)(input("Enter a number "))

e=0

if a>b:

    e=a

if e>c:

    print(e,"is maximum")

else:

    print(c,"is maximum")

if a<b:

    e=a

if e<c:

    print(e,"is minimum")

else:

    print(c,"is minimum")

Output

Enter a number -1

Enter a number 0

Enter a number 1

1 is maximum

-1 is minimum

**Program 8**

try:

    hr=(int)(input("Enter hours worked "))

    rate=(int)(input("Enter rate per hour "))

    given=0.0

    if hr>40:

        t=hr-40

        given+=(t\*1.5\*rate)

        given+=(hr\*rate)

    else:

        given+=(hr\*rate)

    print("PAY IS ",given)

except:

    print("Enter Numberic Type")

    exit()

**Output**

Enter hours worked 30

Enter rate per hour two

Enter Numberic Type

**Program 9**

a=(int)(input("Enter a number "))

t=a

s=0

while t>0:

    d=t%10

    s=s+(d\*d\*d)

    t=t//10

if s==a:

    print("Number is Armstrong")

else :

    print("Number is not Armstrong")

**Output**

Enter a number 407

Number is Armstrong