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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 Numeric Type")
    exit()
```

Output

Enter hours worked 30
Enter rate per hour two
Enter Numeric 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