1.GREATEST OF THREE NUMBERS

Program

```python
a=int(input("Enter number 1 : "))
b=int(input("Enter number 2 : "))
c=int(input("Enter number 3 : "))
if(a>b and a>c):
    greater=a
elif(b>a and b>c):
    greater=b
else:
    greater=c
print("The greatest value is : ",greater)
```

Output

Enter number 1 : 12

Enter number 2 : 16

Enter number 3 : 17

The greatest value is : 17

2.TO FIND ODD OR EVEN NUMBER

Program:

```
a=int(input("Enter a number to be checked for odd or even : "))
if (a%2==0):
    print("The number is even...")
else:
    print("The number is odd...")
```

Output:

Enter a number to be checked for odd or even : 5

The number is odd...

Enter a number to be checked for odd or even : 8

The number is even...

Name: Navin Kumaran O H
Roll No: 22CSEB48

3.STUDENT GRADE ANALYSIS

Program:

```
m1=int(input("Enter Mark 1 M1 :"))

m2=int(input("Enter Mark 2 M2 :"))

m3=int(input("Enter Mark 3 M3 :"))

m4=int(input("Enter Mark 4 M4 :"))

m5=int(input("Enter Mark 5 M5 :"))

total=m1+m2+m3+m4+m5

avg=total/5

print("Your total is "+ str(total) + " Average is " + str(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 Mark 1 M1 :98

Enter Mark 2 M2 :95

Enter Mark 3 M3 :99

Enter Mark 4 M4 :100

Enter Mark 5 M5 :90

Your total is 482 Average is 96.4

Your grade is O !

Name: Navin Kumaran O H
Roll No: 22CSEB48

4.CALCULATE THE ROOTS OF QUADRATIC EQUATIONS

Program:

```
a=int(input("Enter the coefficient of a : "))

b=float(input("Enter the coefficient of b : "))

c=int(input("Enter the coefficient of c : "))

det=(pow(b,2))-(4*a*c)

d1=pow(det,2)

d2=pow(det,2)

if(det>0):                      # Example equation x^2 + 3x + 2 = 0 answers is -1 and -2

    root1=((-b)+pow(d1,0.5))/(2*a)

    root2=((-b)-pow(d1,0.5))/(2*a)

    print(int(root1)," ",int(root2))

elif(det<0):                    # Example equation x^2 + 4x + 5 = 0 answers is -2 +- i

    w=-b/(2*a)

    x=((-b)+pow(d1,0.5))/(2*a)

    y=-b/(2*a)

    z=((-b)+pow(d1,0.5))/(2*a)

    print(str(w) + " + i" + str(int(x)))

    print(str(y) + " - i" + str(int(z)))

else:

    root=-b/(2*a)

    print(root)
```

Output:

Enter the coefficient of a : 1

Enter the coefficient of b : 3

Enter the coefficient of c : 2

-1   -2

Enter the coefficient of a : 1

Enter the coefficient of b : 4

Enter the coefficient of c : 5

-2 + i0   -2 - i0

Name: Navin Kumaran O H
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5.TO CHECK VOTING ELIGIBLITY

Program:

```
n=int(input("Enter the Age : "))
if(n>=18):
    print("You are eligible for Voting")
else:
    print("You are not eligible for voting")
```

Output:

Enter the Age : 17

You are not eligible for voting

Enter the Age : 20

You are eligible for Voting

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Roll No: 22CSEB48

6.CHECK WHEATHER THE GIVEN CHARACTER IS UPPER OR LOWER CASE

Program:

```
a=input("Enter a character to be checked for Upper or Lower case : ")
x=ord(a)
if(x>=65 and x<=90):
    print("The character is UPPERCASED !")
elif(x>=97 and x<=122):
    print("The given character is LOWERCASED")
else:
    print("Enter a Character !!!")
```

Output:

Enter a character to be checked for Upper or Lower case : a

The given character is LOWERCASED

Enter a character to be checked for Upper or Lower case : A

The character is UPPERCASED !

Enter a character to be checked for Upper or Lower case : 2

Enter a Character !!!

Name: Navin Kumaran O H
Roll No: 22CSEB48