

1.Biggest of three

Program:

```
a=int(input("Enter the first number:"))  
b=int(input("Enter the second number:"))  
c=int(input("Enter the third number:"))  
if(a>b and a>c):  
    print (a," is the greatest number")  
elif(b>a and b>c):  
    print (b, "is the greatest number")  
else:  
    print (c,"is the greatest number")
```

Output:

```
Enter the first number:1  
Enter the second number:2  
Enter the third number:3  
3 is the greatest number
```

2.Odd or Even

Program:

```
a=int(input("enter the first number:"))  
if(a%2==0):  
    print("the given number", a," is even number")  
else:  
    print("the given number" ,a,"is odd number")
```

Output:

```
enter the first number:5  
the given number 5 is odd number
```

3.Student Grade Analysis

Program:

```
m1=float(input("enter the mark in first subject:"))
m2=float(input("enter the mark in second subject :"))
m3=float(input("enter the mark in third subject:"))
m4=float(input("enter the mark in fourth subject:"))
m5=float(input("enter the mark in fifth subject:"))
total=m1+m2+m3+m4+m5
print("the total mark is", total)
avg=total/5
if(avg>=90):
    print("your grade is 0")
elif(90>avg>=80):
    print("your grade is A+")
elif(80>avg>=70):
    print("your grade is A")
elif(70>avg>=60):
    print("your grade is B+")
elif(60>avg>=50):
    print("your grade is B")
else:
    print("your grade is 0")
```

Output:

```
enter the mark in first subject:90
enter the mark in second subject :85
enter the mark in third subject:85
enter the mark in fourth subject:90
enter the mark in fifth subject:70
the total mark is 420.0
your grade is A+
```

4.Voting Eligible

Program:

```
age=int(input("enter the age"))  
if age >=18:  
    print("eligible for voting")  
else:  
    print("not eligible for voting")
```

Output:

```
enter the age18  
eligible for voting
```

5.Calculate the root of quadratic equation

Program:

```
equ=input("enter the equation:")  
print("the equation is:",equ)  
a=int(input("enter the a value :"))  
b=int(input("enter the b value :"))  
c=int(input("enter the c value :"))  
d=(b**2)-(4*a*c)  
x1= ( (-b) - (d)**(1/2)) / 2 * a  
x2= ( (-b) - (d)**(1/2)) / 2 * a  
print("the root of the given equation are",x1,"&",x2)
```

Output:

```
enter the equation:5x+6y+8z  
the equation is: 5x+6y+8z  
enter the a value :5  
enter the b value :8  
enter the c value :6  
the root of the given equation are (-20-18.708286933869708j) & (-20-18.708286933869708j)
```

6.Characters uppercase and lowercase

Program:

```
a=input('enter the character:')

if(a in
['A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U','V','W','X','Y','Z']):

    print ('character is upper case')

elif(a in['a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q','r','s','t','u','v','w','x','y','z']):

    print('character is lower case')

else:

    print("not found")
```

Output:

enter the character:k

character is lower case