**Program to find the second largest number**

ALGORITHM:

1.Start the Program

2.Declare the array, max1, max2 and i

3.Get array values from the user

4.Intialize max1=max2=a[0]

5.Create a loop and check the condition max1<a[i]

6.If condition is true process max2=max1 and max1=a[i]

7.Else check the condition max2<a[i] and a[i]!=max1

8.Ana then process max2=a[i]

9.Print the second largest element

10.Stop the program

FLOWCHART:

Print the second largest number max2

max2<a[i] and a[i]!=max1

max2=a[i]

max1<a[i]

max2=max1

max1=a[i]

i=1,i<n,i++

max=a[0]

min=a[0]

Read a[i],n,max1,max2,i

PROGRAM:

#include<stdio.h>

int main()

{

int a[6],max1,max2,i;

printf(“Enter the Elements”);

for(i=0;i<6;i++){  
scanf(“%d”,&a[i]);

max1=max2=a[0];

for(i=1;i<6;i++)

{

if(max1<a[i])

{

max2=max1;

max1=a[i];

}

else if(max2<a[i]&&a[i]!=max1)

{  
max2=a[i];

}

}

printf(“The Second Largest Element is %d”,max2);

}