## Aim: To write a Program to invoke a user defined function to check the condition of $a^3+b^3+c^3=d^3$.

Source Code:

```
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#include<iostream.h>
#include<conio.h>
#include<math.h>
int  satis(int a, int b,int c,int d);
void main()
{     clrscr();
      int a,b,c,d;
      cout<<"Enter the value of a :";
      cin>>a;
      cout<<"Enter the value of b :";
      cin>>b;
      cout<<"Enter the value of c :";
      cin>>c;
      cout<<"Enter the value of d :";
      cin>>d;
      int l=satis(a,b,c,d);
      if(l==0)
      {     cout<<"\nThe Condition  satified";
      }
      else if(l==-1)
      {     cout<<"\nCondition not satisfieed";
      }
      getch();
}
int satis(int a,int b,int c,int d)
{     int temp,equality;
      temp=(a*a*a)+(b*b*b)+(c*c*c);
      equality=d*d*d;
      if(temp==equality)
      return(0);
      else
      return(-1);
}
```

Output :