## **Practical No: 05**

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## Title:

Write a program to demonstrate runtime polymorphism (Virtual Function Concept).

## **Source Code for Virtual Function:**

```
#include<iostream>
#include<string>
using namespace std;
class data
    protected:
         int side,1,b;
    public :
    void getdata()
    {
         cout<<"Enter the length:";</pre>
         cin>>1;
         cout<<"Enter the breadth :";</pre>
         cin>>b;
    virtual void area()
         cout<<"hello";</pre>
};
class reactangle: public data
```

```
public:
         void area(){
    cout<<l*b<<endl;}</pre>
};
class triangle: public data
    public:
    void area(){
    cout<<0.5*1*b<<end1;}</pre>
};
int main()
    int ch;
    int m;
    reactangle r;
    triangle t;
    data *ptr;
    do
    {
         cout<<"Enter choice :\n1.Reactangle \n2.Triangle</pre>
"<<end1;
         cin>>ch;
         switch(ch)
         {
             case 1:
             ptr=&r;
             ptr->getdata();
             ptr->area();
             break;
             case 2:
             ptr=&t;
             ptr->getdata();
             ptr->area();
```

```
break;

}

cout<<"Do you want to continue ?:";
cin>>m;
}
while(m==1);
return 0;
}
```

## Output:

```
Enter choice:
1.Reactangle
2.Triangle
1
Enter the length:5
Enter the breadth :4
20
Do you want to continue ?:1
Enter choice:
1.Reactangle
2.Triangle
2
Enter the length:40
Enter the breadth:50
1000
Do you want to continue ?:
```