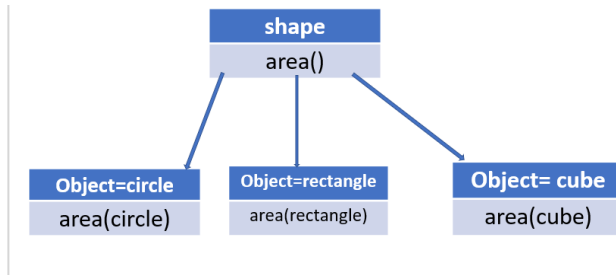


# Polymorphism

**Q1- What do you understand by polymorphism?**

**Ans1-**Polymorphism is a method which allow object those have different internal structure. This is Greek word which means more than one form.



**Q2- Wrp to find an area of different shapes by using polymorphism.**

**Ans2- following is the program-**

```
#include <iostream>

using namespace std;

class Shape
{
protected:
    int width, height;
public:
    Shape( int a = 0, int b = 0)
{
    width = a;
    height = b;
```

```

    }

    int area()
{
    cout << " area :" <<endl;

    return 0;

}

};

class Rectangle: public Shape
{
public:

    Rectangle( int a = 0, int b = 0):Shape(a, b)

    int area ()
{
    cout << "Rectangle class area :" <<endl;

    return (width * height);

}

};

class Triangle: public Shape
{
public:

    Triangle( int a = 0, int b = 0):Shape(a, b)

    int area ()
{

```

```
        cout << "Triangle class area :" << endl;

        return (width * height / 2);

    }

};

int main()

{

    Shape *shape;

    Rectangle rect(30,20);

    Triangle trig(12,6);

    shape = &rect;

    shape->area();

    shape = &trig;

    shape->area();

    return 0;}
```