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Example of function overloading :

```cpp
#include<iostream>
using namespace std;

class Demo
{
    public:
    void area(int r)
    {
        cout<<"The area of circle is :"<<(3.14*r*r)<<endl;

    }

    void area(int b, int h)
    {
        cout<<"The area of triangle :"<<(0.5*b*h)<<endl;
    }

    void area(int radius, int height, float pi)
    {
        cout<<"Area of cylinder :"<<(2*pi*radius*height) + (2*pi*radius*ra
dius)<<endl;
    }

    void area(int length, float breadth)
    {
        cout<<"Area of rectangle is :"<<(length*breadth)<<endl;
    }
};

int main()
{
    Demo circle, triangle, cylinder, rectangle;
    circle.area(12);
    triangle.area(23,23);
    cylinder.area(5,10, 3.142);
    rectangle.area(15,12);
    return 0;
}
```

```
/*
OUTPUT :
The area of circle is : 452.16
The area of triangle : 264.5
Area of cylinder : 471.3
The area of triangle : 90
*/
```