

# Function Overloading

- If More than one functions can have same name, but different parameter list, then they are overloaded functions
- Return type is not considered in overloading
- Function overloading is used for achieving compile time polymorphism

## Program to Demonstrate Function Overloading using Sum function

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

int sum(int a,int b)
{
    return a+b;
}

float sum(float a,float b)
{
    return a+b;
}

int sum(int a,int b,int c)
{
    return a,b,c;
}

int main()
{
    cout<<sum(10,5)<<endl;
    cout<<sum(12.5f,3.4f)<<endl;
    cout<<sum(10,20,3)<<endl;

    return 0;
}
```