**ASSIGNMENT**

**FUNCTION OVERLOADING**

These functions having the same name but different type and number of arguments and are independent of return types.

**PROGRAM: - PROGRAM TO ADD TWO NUMBERS USING FUNCTION OVERLOADING CONCEPT**

#include <iostream>

using namespace std;

int sum(int, int); //function declaration

float sum(float, float); //function declaration

int main()

{

int num1, num2;

float num3, num4;

cout<<"Enter two integer numbers: ";

cin>>num1>>num2;

cout<<"Result: "<<sum(num1, num2)<< endl; //This will call the first function

cout<<"Enter two float numbers: ";

cin>>num3>>num4;

cout<<"Result: " <<sum(num3, num4)<< endl; //This will call the second function

return 0;

}

int sum(int a, int b) //function definition

{

return a+b; //function body

}

float sum(float a, float b) //function definition

{

return a+b; //function body

}

**OUTPUT:-**

Enter two integer numbers: 2 3

Result: 5

Enter two float numbers: 2.4 4.5

Result: 6.9