```
P:-11
Q1
#include <iostream>
using namespace std;
// Inline function to perform addition
inline float addition(float a, float b)
{
return a + b;
}
// Inline function to perform subtraction
inline float subtraction(float a, float b)
{
return a - b;
}
// Inline function to perform multiplication
inline float multiplication(float a, float b)
{
return a * b;
}
// Inline function to perform division
inline float division(float a, float b)
{
if (b != 0)
return a / b;
else
cout << "Error: Division by zero!";</pre>
return 0;
}
}
int main()
```

```
{
float num1, num2;
// Input from user
cout << "Enter first float number: ";</pre>
cin >> num1;
cout << "Enter second float number: ";</pre>
cin >> num2;
// Perform arithmetic operations using inline functions
cout << "Addition: " << addition(num1, num2) << endl;</pre>
cout << "Subtraction: " << subtraction(num1, num2) << endl;</pre>
cout << "Multiplication: " << multiplication(num1, num2) << endl;</pre>
cout << "Division: " << division(num1, num2) << endl;</pre>
return 0;
}
Q2
#include <iostream>
#include <string>
using namespace std;
class Person {
private:
string Person_Name;
string City;
string Mob_No;
public:
// Function to accept and display Person information
void acceptDisplayInfo() {
cout << "Enter Person Name: ";</pre>
cin >> Person_Name;
cout << "Enter City: ";
cin >> City;
cout << "Enter Mobile Number: ";</pre>
```

```
cin >> Mob_No;
displayInfo();
}
// Function to display Person information
void displayInfo() {
cout << "Person Name: " << Person_Name << endl;</pre>
cout << "City: " << City << endl;
cout << "Mobile Number: " << Mob_No << endl;</pre>
}
// Function to search Person details by mobile number
void searchByMobile(string mobileNumber) {
if (mobileNumber == Mob_No) {
cout << "Person Found!\n";</pre>
displayInfo();
} else {
cout << "Person not found with given mobile number.\n";</pre>
}
}
// Function to search Person details by city
void searchByCity(string city) {
if (city == City) {
cout << "Person Found!\n";</pre>
displayInfo();
} else {
cout << "Person not found in given city.\n";</pre>
}
}
};
int main() {
Person person;
char choice;
```

```
string searchValue;
// cout << "Enter Person Information:\n";</pre>
person.acceptDisplayInfo();
cout << "\nSearch by (M)obile number or (C)ity? ";</pre>
cin >> choice;
switch (choice) {
case 'M':
case 'm':
cout << "Enter Mobile Number to search: ";</pre>
cin >> searchValue;
person.searchByMobile(searchValue);
break;
case 'C':
case 'c':
cout << "Enter City to search: ";</pre>
cin >> searchValue;
person.searchByCity(searchValue);
break;
default:
cout << "Invalid choice!\n";</pre>
}
return 0;
}
```