1. Write a c++ program to overload the ++ operator to increment a variable

2. Write a c++ program to overload the + operator to add two variables

3. Write a c++ program to overload the << operator to print contents of a user defined class

```
3. lesthan lessthan operator to print contents of a user defined class.cpp

#include <iostream>
using namespace std;

| Class Print {
    int value;
    public:
        Print(int v) : value(v) {}

| friend ostream& operator<<(ostream &out, const Print &obj);
| cout << "Value: " << obj.value;
    return out;
| out << "Value: " << obj.value;
    return out;
| out << "Value: " << obj.value;
    return out;
| out << obj.value;
| return obj(5);
| cout << obj << endl;
| return 0;
| retur
```

4. Write a c++ program to overload the == operator to compare two objects of a user defined class

5. Write a c++ program to overload the * operator to multiply two matrices

6. rite a c++ program to overload the [] operator to access the elements in an array using index values

7. Write a c++ program to overload the () to call a function with arguments

8. rite a c++ program to overload the – operator to subtract two variables

```
8. - operator to subtract two variables.cpp ×

1  #include <iostream>
using namespace std;
3  
4d= class Subtract {
    int value;
    public:
        Subtract(int v) : value(v) {}
8        Subtract operator-(const Subtract &obj) {
        return Subtract(value - obj.value);
        }
1        void display() {
            cout << "Difference: " << value << endl;
        }
1        int main() {
              Subtract obj3 = obj1 - obj2;
            obj3.display();
        return 0;
        }

8        Subtract obj3 = obj1 - obj2;
        obj3.display();
        return 0;
```

9. write a c++ program to overload a function to add two integer numbers and two floating point number separately

10. Write a c++ program to overload the += operator to add two objects of a user defined class

11. write a c++ program to overload a function to find the maximum value from two integer numbers and two floating point number, and two characters separately

```
11. find the maximum value from two integer numbers and two floating point number, and two characters separately.cpp

#include <iostream>
using namespace std;

#include <iostream>
using namespace st
```

12. write a c++ program to overload a function to concatenate two strings and two characters arrays separately

13. write a c++ program to overload a function to calculate the sum of two matrices and two arrays separately

14. write a c++ program to overload a function to print an integer array, a double array and a character array separately

```
14. print an integer array, a double array and a character array separately.cpp

| Court | Cou
```

15. write a c++ program to overload a function to find a factorial of an integer number and factorial of a floating-point number separately

```
15. factorial of an integer number and factorial of a floating-point number separately.cpp

**

#include <iostream>
using namespace std;

#include <iostream>
using namespace std;

#include <iostream>

#include <iostream>
using namespace std;

#include <iostream>

#include <iostream
```

16. write a c++ program to overload a function to sort an integer array and a double array

17. write a c++ program to overload a function to calculate the power of an integer number and power of a floating-point number separately

```
17. calculate the power of an integer number and power of a floating-point number separately.cpp
1 #include <iostream>
2 #include <cmath>
    using namespace std;
                                                                   ©S C:\Users\prath\OneDrive\Des × + ~
 5☐ int power(int base, int exp) {
6 }
          return pow(base, exp);
                                                                 2 raised to 3 is 8
                                                                 2.5 raised to 3.5 is 24.7053
 9☐ float power(float base, float exp) {
10 }
         return pow(base, exp);
                                                                 Process exited after 0.111 seconds with return value 0 Press any key to continue . . . \mid
12
13□ int main() {
          int intBase = 2, intExp = 3;
14
15
          float floatBase = 2.5f, floatExp = 3.5f;
16
17
          cout << intBase << " raised to " << intExp << " is " << power(intBase, intExp) << endl;
cout << floatBase << " raised to " << floatExp << " is " << power(floatBase, floatExp) << endl;</pre>
18
19
20
          return 0:
```

18. write a c++ program to overload a function to find an absolute value of an integer number and absolute value of a floating-point number separately

```
18. find an absolute value of an integer number and absolute value of a floating-point number separately.cpp
1 #include <iostream
     using namespace std;
                                                                                        © C:\Users\prath\OneDrive\Des × + ~
 4⊟ int absolute(int n) {
5     return (n < 0) ? -n : n;
6 }
                                                                                      Absolute value of -5 is 5
Absolute value of -3.5 is 3.5
 8 float absolute(float n) {
          return (n < 0) ? -n : n;
                                                                                       Process exited after 0.1144 seconds with return va
10 }
11
                                                                                       Press any key to continue . . .
12= int main() {
13     int intNum = -5;
14
15
16
17
18
19
20 }
          float floatNum = -3.5f;
          cout << "Absolute value of " << intNum << " is " << absolute(intNum) << endl;
cout << "Absolute value of " << floatNum << " is " << absolute(floatNum) << endl;</pre>
          return 0;
```