Q1. Write a C++ Program to shown the concept of friend function also define a specific problem where we can use this concept for solve the specific problem by writing a specific friend function in that class.

```
#include <iostream>
using namespace std;
class Box
{
 private:
    int length;
 public:
     Box (): length (0) {}
 friend int printLength (Box); //friend function
};
int printLength (Box b)
  b. length +=10;
  return b. length;
}
int main ()
{
 Box b;
 cout <<"Length of box " <<pre><<pre>rintLength (b)<<endl;</pre>
  return 0;
}
Length of box 10
```

Q2. Write a C++ Program to implement a friend function through a method of another class as well as implement the friend function using the global function.

```
#include<iostream>
using namespace std;
class space
{
```

```
int x;
  int y;
  int z;
  public:
  void setdata (int a, int b, int c);
  void display(void);
  friend void operator- (space &s);
};
void space ::setdata (int a, int b, int c)
{
  x=a; y=b; z=c;
}
void space::display(void)
{
  cout<<x<<" "<<y<<" "<<z<<"\n";
}
void operator- (space &s)
{
  s.x =- s.x;
  s.y =- s.y;
  s.z =- s.z;
}
int main ()
{
  space s;
  s. setdata (5,2,9);
  cout<<"s:";
  s. display ();
  -s;
  cout<<"-s:";
  s. display ();
```

```
return 0;
}
s:5 2 9
-s:-5 -2 -9
```