

8Q1

```
#include <iostream>

using namespace std;

class Number2; //forward declaration

class Number1 {
private:
int num;
public:
Number1(int n) : num(n) {}

friend int subtract(const Number1 &n1, const Number2 &n2);  };

class Number2 {
private:
int num;
public:
Number2(int n) : num(n) {}

friend int subtract(const Number1 &n1, const Number2 &n2);  };

int subtract(const Number1 &n1, const Number2 &n2) {
return n1.num - n2.num;  }

int main() {
int num1, num2;

cout << "Enter the first number: ";

cin >> num1;

Number1 n1(num1);

cout << "Enter the second number: ";

cin >> num2;

Number2 n2(num2);

cout << "Subtraction result: " << subtract(n1, n2) << endl;

return 0;  }
```

8]Q2 write a c++ program to create a class date which contains three data

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

```
class date {    int dd, mm, yy;    public:
```

```
date(int d, int m, int y) {
```

```
dd = d;    mm = m;    yy = y; }
```

```
void display() {
```

```
cout << "\ngiven date is\t";
```

```
cout << dd << "-" << mm << "-" << yy;
```

```
cout << "\nAfter formating date is\t";
```

```
switch (mm) {    case 1:
```

```
cout << "\n"
```

```
<< dd << "-Jan-" << yy;
```

```
break;
```

```
case 2:
```

```
cout << "\n"
```

```
<< dd << "-Feb-" << yy;
```

```
break;
```

```
case 3:
```

```
cout << "\n"
```

```
<< dd << "-Mar-" << yy;
```

```
break;
```

```
case 4:
```

```
cout << "\n"
```

```
<< dd << "-Apr-" << yy;
```

```
break;
```

```
case 5:
```

```
cout << "\n"
```

```
<< dd << "-May-" << yy;
```

```
break;    case 6:
```

```
cout << "\n"
```

```
<< dd << "-Jun-" << yy;
```

```

break;          case 7:
cout << "\n"
<< dd << "-Jul-" << yy;
break;          case 8:
cout << "\n"
<< dd << "-Aug-" << yy;
break;          case 9:
cout << "\n"
<< dd << "-Sep-" << yy;
break;          case 10:
cout << "\n"
<< dd << "-Oct-" << yy;
break;          case 11:
cout << "\n"
<< dd << "-Nov-" << yy;
break;          case 12:
cout << "\n"
<< dd << "-Dec-" << yy;
break;
default:
cout << "\nInvalid month"; } } };
int main() {
int m, dt, y;
cout << "\n Enter date : ";
cin >> dt;
cout << "\n Enter month : ";
cin >> m;
cout << "\n Enter year : ";
cin >> y;
date d(dt, m, y);

```

```
d.display();    return 0;}
```