```
//Singleton
#include <iostream>
using namespace std;
class Singleton
private:
  static bool instanceFlag;
  static Singleton *single;
  Singleton()
    //private constructor
  }
public:
  static Singleton* getInstance();
  void method();
  ~Singleton()
    instanceFlag = false;
  }
};
bool Singleton::instanceFlag = false;
Singleton* Singleton::single = NULL;
Singleton* Singleton::getInstance()
  if(! instanceFlag)
    single = new Singleton();
    instanceFlag = true;
    return single;
  }
  else
    return single;
  }
}
void Singleton::method()
  cout << "Method of the singleton class" << endl;</pre>
}
int main()
  Singleton *sc1;
  sc1 = Singleton::getInstance();
  sc1->method();
```

```
return 0;
}
output
Method of the singleton class
//Template Design pattern
* main.cpp
* Created on: Nov 17, 2016
*/
#include <iostream>
using namespace std;
class AbstractClass
public:
        void templateMethod() {
                primitiveOperation1();
                primitiveOperation2();
                concreteOperation();
                hook();
        }
        virtual void primitiveOperation1() = 0;
        virtual void primitiveOperation2() = 0;
        void concreteOperation() {
                cout << "Mandatory Operations for all ConcreteClasses" << endl;</pre>
        virtual void hook() {}
};
class ConcreteClassA: public AbstractClass
public:
 void primitiveOperation1() {
  cout << "primitiveOp1 A" << endl;</pre>
 void primitiveOperation2() {
  cout << "primitiveOp2 A" << endl;</pre>
 }
};
class ConcreteClassB: public AbstractClass
```

```
public:
 void primitiveOperation1() {
  cout << "primitiveOp1 B" << endl;</pre>
 void primitiveOperation2() {
  cout << "primitiveOp2 B" << endl;</pre>
 void hook() {
  cout << "hook() B" << endl;</pre>
 }
};
int main()
 ConcreteClassA ca;
 ConcreteClassB cb;
 ca.templateMethod();
 cb.templateMethod();
 return 0;
<mark>output</mark>
primitiveOp1 A
primitiveOp2 A
Mandatory Operations for all ConcreteClasses
primitiveOp1 B
primitiveOp2 B
Mandatory Operations for all ConcreteClasses
hook() B
```