

### Lab 3.1 : Copy Constructor

```
#include <iostream>
using namespace std;
//copy constructor
class Sample{
    int x;
    string d;
public:
    Sample();
    Sample(Sample &);
    void display();
    void input();
}
Sample::Sample(){
    x = 0;
    d = "";
}
Sample::Sample(Sample & U){
    x = U.x;
    d = U.d;
}
void Sample::input(){
    cout<<"Enter x:";
    cin>>x;
    cin.ignore();
    cout<<"Enter textstring:";
    getline(cin,d);
}
void Sample::display(){
    cout<<"X  :"<<x<<"\nText:"<<d<<"\n";
}
```

```
int main(){
    Sample X;
    X.input();
    cout<<"Copying contents into another
object...\n";
    Sample Y(X);
    cout<<"Displaying second object\n";
    Y.display();
    return 0;
}
```

```
C:\Users\Vincent\Code\c-cpp\SE\Labs\OOPS\Expe
Enter x:12
Enter textstring:dennis ritchie
Copying contents into another object...
Displaying second object
X   :12
Text:dennis ritchie
```