```cpp
#include <iostream>
#include <string>
using namespace std;
class Laptop
{
private:
    string manufacturer;
    string processor;
    double screenSize;
    string color;
    bool isNew;
public:
    string getManufacturer() const;
    string getProcessor() const;
    double getScreenSize() const;
    string getColor() const;
    bool getIsNew() const;
    void setManufacturer(string);
    void setProcessor(string);
    void setScreenSize(double);
    void setColor(string);
    void setIsNew(bool);
    void input();
    void output() const;
    Laptop();
    Laptop(string, string = "AMD Ryzen", double = 17.3, string = "Silver", bool = false);
};
Laptop::Laptop()
{
    manufacturer = "Asus";
    processor = "Intel i5";
    screenSize = 15.6;
    color = "Black";
    isNew = true;
}
Laptop::Laptop(string a, string b, double c, string d, bool e)
{
    manufacturer = a;
    processor = b;
    screenSize = c;
    color = d;
    isNew = e;
}
string Laptop::getManufacturer() const
{
    return manufacturer;
}
string Laptop::getProcessor() const
```

```
49  {
50      return processor;
51  }
52  double Laptop::getScreenSize() const
53  {
54      return screenSize;
55  }
56  string Laptop::getColor() const
57  {
58      return color;
59  }
60  bool Laptop::getIsNew() const
61  {
62      return isNew;
63  }
64  void Laptop::setManufacturer(string x)
65  {
66      manufacturer = x;
67  }
68  void Laptop::setProcessor(string x)
69  {
70      processor = x;
71  }
72  void Laptop::setColor(string x)
73  {
74      color = x;
75  }
76  void Laptop::setScreenSize(double x)
77  {
78      screenSize = x;
79  }
80  void Laptop::setIsNew(bool x)
81  {
82      isNew = x;
83  }
84  void Laptop::input()
85  {
86      string newStr;
87      cout << "Manufacturer? ";
88      getline(cin, manufacturer);
89      cout << "Processor? ";
90      getline(cin, processor);
91      cout << "ScreenSize? ";
92      cin >> screenSize;
93      cin.ignore();
94      cout << "Color? ";
95      getline(cin, color);
96      cout << "Is this laptop new?(Y/N) ";
97      getline(cin, newStr);
```

```
 98      if (newStr == "Y" || newStr == "y")
 99          isNew = true;
100      else if (newStr == "N" || newStr == "n")
101          isNew = false;
102      else
103          cout << "Invalid answer!!!" << endl;
104      cout << endl;
105  }
106  void Laptop::output() const
107  {
108      cout << "Manufacturer:\t" << manufacturer << endl;
109      cout << "Processor:\t" << processor << endl;
110      cout << "Screen Size:\t" << screenSize << endl;
111      cout << "Color:\t " << color << endl;
112      if(isNew)
113          cout << "This laptop is a new laptop." << endl;
114      else
115          cout << "This laptop is a used laptop." << endl;
116      cout << endl;
117  }
118
119  int main()
120  {
121      Laptop a, b("Dell", "Intel i5", 15.6, "Black", true);
122
123      a.input();
124      b.input();
125      a.output();
126      b.output();
127      return 0;
128  }
129
```