```
#include <iostream>
#include <string>
using namespace std;
class Car {
 string b;
  string m;
  double p;
  Car() : b("Unknown"), m("Generic"), p(0.0), a(true) {}
  string getB() const { return b; }
  string getM() const { return m; }
  double getP() const { return p; }
  bool isA() const { return a; }
  void setB(const string& brand) { b = brand; }
  void setM(const string& model) { m = model; }
  void setP(double price) { p = price; }
  void setA(bool availability) { a = availability; }
    <u>if (a) {</u>
      a = false;
         cout << "Car rented successfully." << endl;</pre>
         return true;
      } else {
         cout << "Car is not available." << endl;</pre>
          return false;
 Car c;
  cout << "Brand: " << c.getB() << endl;</pre>
  cout << "Model: " << c.getM() << endl;</pre>
  cout << "Price: " << c.getP() << endl;</pre>
```

```
cout << "Available: " << (c.isA() ? "Yes" : "No") << endl;
c.rent():
cout << "Available: " << (c.isA() ? "Yes" : "No") << endl;
return 0;
}</pre>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERM
cd "/Users/kabir/Desktop/kabir/00P 2nd sem/extra/we
"task1
• kabir@kabirs-MacBook-Pro 00P 2nd sem % cd "/Users/k
/Desktop/kabir/00P 2nd sem/extra/weak4/"task1
Brand: Unknown
Model: Generic
Price: 0
Available: Yes
Car rented successfully.
Available: No
• kabir@kabirs-MacBook-Pro weak4 %
```

```
#include <iostream>
#include <string>
<u>using namespace std;</u>
class Car {
 string b;
  bool a;
oublic:
  Car() : b("Unknown"), m("Generic"), p(0.0), a(true) {}
  Car(const string& brand, const string& model, double price, bool availability) :
 (brand), m(model), p(price), a(availability) {}
  string getB() const { return b; }
  string getM() const { return m; }
  void setM(const string& model) { m = model; }
  void setP(double price) { p = price; }
  void setA(bool availability) { a = availability; }
   <u>if (a) {</u>
       <u>a = false;</u>
         cout << "Rented." << endl;</pre>
    } else {
         cout << "Unavailable." << endl;</pre>
        return false;
  double discount(int d) {
      if (!a) return 0;
      double dis = 0.0;
      if (d > 5) dis = 0.05;
    <u>return p * (1 - dis);</u>
```

```
int main() {
    Car c("Toyota", "Camry", 50.0, true):
        cout << "Brand: " << c.getB() << endl:
        cout << "Model: " << c.getM() << endl;
        cout << "Price: " << c.getP() << endl;
        cout << "Available: " << (c.isA() ? "Yes" : "No") << endl;
        cout << "Discounted Price (12 days): " << c.discount(12) << endl;
        c.rent();
        cout << "Available: " << (c.isA() ? "Yes" : "No") << endl;
        return 0;
}
</pre>
```

```
cd "/Users/kabir/Desktop/kabir/00P 2nd sem/extra/we "task2

kabir@kabirs-MacBook-Pro 00P 2nd sem % cd "/Users/k /Desktop/kabir/00P 2nd sem/extra/weak4/"task2 Brand: Toyota Model: Camry Price: 50 Available: Yes Discounted Price (12 days): 45 Rented. Available: No
kabir@kabirs-MacBook-Pro weak4 %
```

```
#include <iostream>
#include <string>
using namespace std;
class Car {
 string b;
  string m;
 double p;
 bool a;
  Car() : b("Unknown"), m("Generic"), p(0.0), a(true) {}
  Car(const string& brand, const string& model, double price, bool availability) :
(brand), m(model), p(price), a(availability) {}
  Car(const Car& other) : b(other.b), m(other.m), p(other.p), a(other.a) {
     cout << "Car copy created." << endl;</pre>
 cout << "Car destroyed." << endl;</pre>
  string getB() const { return b; }
  string getM() const { return m; }
  double getP() const { return p; }
  bool isA() const { return a; }
  void setB(const string& brand) { b = brand; }
  void setM(const string& model) { m = model; }
  void setP(double price) { p = price; }
  void setA(bool availability) { a = availability; }
  bool rent() {
   if (a) {
       a = false;
          cout << "Rented." << endl;</pre>
          return true;
         cout << "Unavailable." << endl;</pre>
        return false;
   double discount(int d) {
```

PROBLEMS OUTPUT DEBUG CONSOLE PORTS

cd "/Users/kabir/Desktop/kabir/00P 2nd sem/ex

kabir@kabirs-MacBook-Pro 00P 2nd sem % cd "/Usop/kabir/00P 2nd sem/extra/"task3

Car copy created.

c1 Brand: Honda

c2 Brand: Toyota

Car destroyed.

Car destroyed.

Nabir@kabirs-MacBook-Pro extra %

```
<u>#include <iostream></u>
#include <string>
using namespace std;
class Car {
  string b;
  string m;
 double p;
  bool a;
  Car() : b("Unknown"), m("Generic"), p(0.0), a(true), r(0.0) {}
  Car(const string& brand, const string& model, double price, bool availability) :
b(brand), m(model), p(price), a(availability), r(0.0) {}
  Car(const Car& other) : b(other.b), m(other.m), p(other.p), a(other.a), r(other.r)
      cout << "Copy created." << endl;</pre>
     cout << "Car gone." << endl;</pre>
  string getB() const { return b; }
  string getM() const { return m; }
  double getP() const { return p; }
  bool isA() const { return a; }
  void setB(const string& brand) { b = brand; }
  void setM(const string& model) { m = model; }
  void setP(double price) { p = price; }
   void setA(bool availability) { a = availability; }
  bool rent(int d) {
    if (a) {
        a = false;
        cout << "Rented." << endl;</pre>
       <u>return true;</u>
     cout << "Unavailable." << endl;</pre>
```

```
double_discount(int_d) {
   if (!a) return 0;
    double dis = 0.0;
    if (d > 5) dis = 0.05;
    if (d > 10) dis = 0.10;
    <u>return p * (1 - dis);</u>
nt main() {
 Car c("Toyota", "Camry", 50.0, true);
 cout << "Revenue: " << c.getR() << endl;</pre>
  PROBLEMS
                 OUTPUT
                              DEBUG CONSOLE
                                                  PORTS
  cd "/Users/kabir/Desktop/kabir/00P 2nd sem/weak1/
kabir@kabirs-MacBook-Pro 00P 2nd sem % cd "/Users
  sem/weak1/"task4
  Rented.
  Revenue: 350
  Car gone.
  kabir@kabirs-MacBook-Pro weak1 %
```

```
#include <iostream>
#<u>include <str</u>ing>
#include <iomanip>
using namespace std;
class Car {
  int id;
  string b;
  string m;
  bool a;
  Car(int i, const string& brand, const string& model, double price, bool
availability) : id(i), b(brand), m(model), p(price), a(availability), r(0.0) {}
  string getB() const { return b; }
  string getM() const { return m; }
  double getP() const { return p; }
  bool isA() const { return a; }
   double getR() const { return r; }
  void setB(const string& brand) { b = brand; }
  void setM(const string& model) { m = model; }
  void setP(double price) { p = price; }
  void setA(bool availability) { a = availability; }
  bool rent(int d) {
      <u>a = false;</u>
       <u>r += p * d;</u>
         cout << "Rented." << endl;</pre>
        return true;
         cout << "Unavailable." << endl;</pre>
  double discount(int d) {
  <u>if (!a) return 0;</u>
```

```
double dis = 0.0;
      if (d > 5) dis = 0.05;
      if (d > 10) dis = 0.10;
      <u>return p * (1 - dis);</u>
  void display() const {
   cout << "ID: " << id << endl;
     cout << "Brand: " << b << endl;</pre>
      cout << "Model: " << m << endl;</pre>
      cout << "Price: $" << fixed << setprecision(2) << p << endl;</pre>
      cout << "Available: " << (a ? "Yes" : "No") << endl;</pre>
      cout << "Revenue: $" << fixed << setprecision(2) << r << endl;</pre>
int main() {
 Car c(1, "Toyota", "Camry", 50.0, true);
  c.rent(7);
 c.display();
  return 0;
```

PROBLEMS OUTPUT DEBUG CONSOLE

cd "/Users/kabir/Desktop/kabir/00P 2nd

kabir@kabirs-MacBook-Pro 00P 2nd sem sem/weak2/"task5

Rented.

ID: 1

Brand: Toyota

Model: Camry

Price: \$50.00

Available: No

Revenue: \$350.00

○ kabir@kabirs—MacBook—Pro weak2 %