```
<u>#include <iostream></u>
<u>#include <string></u>
using namespace std;
class Wallet {
  string oN;
  double tB;
 string tH[100];
 int tC;
  Wallet(string name) : oN(name), tB(0), tC(0) {}
  void add(double amt) {
     <u>tB += amt;</u>
      tH[tC++] = "Added $" + to string(amt);
  void spend(double amt) {
     if (tB >= amt) {
      <u>tB -= amt;</u>
       tH[tC++] = "Spent $" + to_string(amt);
       cout << "Insufficient balance." << endl;</pre>
        cout << tH[i] << endl;</pre>
  double getBalance() const { return tB; }
int main() {
 Wallet w("Saad");
 w.spend(50);
  w.showHistory();
```

```
cout << "Balance: $" << w.getBalance() << endl;
    return 0;
}</pre>
```

PROBLEMS OUTPUT DEBUG CONSOL

cd "/Users/kabir/Desktop/kabir/00P
• kabir@kabirs-MacBook-Pro 00P 2nd s
sem/weak3/"task1

Added \$100.000000

Spent \$50.000000

Balance: \$50

o kabir@kabirs-MacBook-Pro weak3 %

```
#include <iostream>
#include <string>

using namespace std;

class FitnessTracker {
    string uN;
    int dSG;
    int sT:
    int cB:
public:
    FitnessTracker(string name, int goal) : uN(name), dSG(goal), sT(0), cB(0) {}
    void logSteps(int steps) {
```

```
sT += steps:
    cB = sT * 0.05;

l
    void showProgress() const {
    cout << "Steps Taken: " << sT << endl:
        cout << "Calories Burned: " << cB << endl:
        if (sT >= dSG) {
            cout << "Goal Achieved!" << endl;
            } else {
            cout << "Steps remaining: " << dSG - sT << endl;
            }

}

l:

int main() {
    FitnessTracker f("Laiba", 10000):
    f.logSteps(5000);
    f.showProgress();
    f.legSteps(6000):
    f.showProgress();
    return 0;
}</pre>
```

PROBLEMS OUTPUT DEBUG CONSOL

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

kabir@kabirs-MacBook-Pro 00P 2nd se

sem/weak3/"task2

Steps Taken: 5000

Calories Burned: 250

Steps remaining: 5000

Steps Taken: 11000

Calories Burned: 550

Goal Achieved!

o kabir@kabirs-MacBook-Pro weak3 %

```
#include <iostream>
#include <string>
using namespace std;
struct Book {
 string t;
 <u>string a;</u>
 bool av;
;
class Library {
 Book bL[100];
 int bC;
public:
 Librarv() : bC(0)  {}
  void addBook(const Book& book) {
     bL[bC++] = book;
 void lendBook(int i) {
  <u>if (i >= 0 && i < bC && bL[i].av) {</u>
       bL[i].av = false;
         cout << "Book lent." << endl;</pre>
         cout << "Book not available." << endl;</pre>
  void returnBook(int i) {
  <u>if (i >= 0 && i < bC && !bL[i].av) {</u>
     bL[i].av = true;
         cout << "Book returned." << endl;</pre>
        cout << "Invalid book index or book is available." << endl;</pre>
  void showBooks() const {
     for (int i = 0; i < bC; i++) {</pre>
         cout << "Title: " << bL[i].t << ", Author: " << bL[i].a << ", Available: "</pre>
 < (bL[i].av ? "Yes" : "No") << endl;
```

```
int main() {
 Librarv l;
  Book b1 = {"The Lord of the Rings", "J.R.R. Tolkien", true};
 1.addBook(b1);
  1.showBooks();
  1.returnBook(0);
 l.showBooks();
 <u>return 0;</u>
cd "/Users/kabir/Desktop/kabir/OOP 2nd sem/weak3/" && g++ task3.cpp -o task3
kabir@kabirs-MacBook-Pro 00P 2nd sem % cd "/Users/kabir/Desktop/kabir/00P 2nd
sem/weak3/"task3
Title: The Lord of the Rings, Author: J.R.R. Tolkien, Available: Yes
Book lent.
Title: The Lord of the Rings, Author: J.R.R. Tolkien, Available: No
Book returned.
Title: The Lord of the Rings, Author: J.R.R. Tolkien, Available: Yes
kabir@kabirs-MacBook-Pro weak3 %
```

```
#include <iostream>
#include <string>

using namespace std;

class Car {
    string b;
    string m;
    double fC;
```

```
double cFL;
public:
 __Car(const_string& brand, const_string& model, double capacity) : b(brand),
m(model), fC(capacity), cFL(capacity) {}
 void drive(double distance) {
   double fuelNeeded = distance * 0.1;
    if (cFL >= fuelNeeded) {
      <u>cFL -= fuelNeeded;</u>
          cout << "Driven " << distance << " km." << endl;</pre>
      cout << "Not enough fuel." << endl;</pre>
    checkFuel();
  void refuel() {
   cFL = fC;
      cout << "Fuel tank filled." << endl;</pre>
 void checkFuel() const {
       cout << "Low fuel warning!" << endl;</pre>
  cout << "Fuel Level: " << cFL << "/" << fC << endl;
int main() {
 Car c("Toyota", "Corolla", 50);
 c.drive(200);
 c.drive(350);
 c.refuel();
 c.drive(100);
 return 0;
```

```
PROBLEMS OUTPUT DEBUG CONSOLE

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

• kabir@kabirs-MacBook-Pro 00P 2nd sem %
sem/weak3/"task4
Driven 200 km.
Fuel Level: 30/50
Not enough fuel.
Fuel Level: 30/50
Fuel tank filled.
Driven 100 km.
Fuel Level: 40/50

• kabir@kabirs-MacBook-Pro weak3 %
```

PROBLEMS OUTPUT DEBUG CONSOLE

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

kabir@kabirs-MacBook-Pro 00P 2nd se sem/weak3/"task5
Roberian Phansody

Bohemian Rhapsody

Stairway to Heaven

Playing: Bohemian Rhapsody

Stairway to Heaven

o kabir@kabirs-MacBook-Pro weak3 %