





172.17.54.47/cpp_prog









8:37

C++ Programming



```
Questions
244.
Online Shopping Cart: Design a class for an online shopping cart that inclu
Sample Input:
Adding items to the cart.
Item: Laptop
Price: 1000
Quantity: 2
Sample Output:
Item added to cart: Laptop, Price: 1000,
Quantity: 2
Sample Input for removing items:
Removing items from the cart.
Item: Laptop
Quantity to remove: 1
Sample Output for removing items:
Item removed from cart: Laptop, Remaining Quantity: 1
Total Cost of Items in Cart: 1000
```

```
1 #include<iostream>
 2 using namespace std;
3 class cart
4 {
       int n,m,price;
public:
         void read()
           cin>>c;
cin>>price;
        void print();
    void cart::print()
       cout<<"items added to cart: "<<c<endl;
cout<<"price: "<<pri>price<: "<<n<endl;
cout<<"quantity: "<<n<endl;
cout<<"item removing from cart: "<<c<endl;
cout<<"remaining quantity: "<<m;</pre>
26 int main()
        cart c;
c.read();
```

laptop 1000 2 1





```
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Questions
241.
Music Player: Construct a class representing a music player with functional
Music Player: Construct a class represent
Sample Input:
Enter song name: Shape of You
Enter artist name: Ed Sheeran
Sample Output:
Now playing: Shape of You by Ed Sheeran
Sample Input:
pause
Sample Output:
Song paused
                                                                                                                   Shape Hierarchy
Sample Input:
stop
Sample Output:
Song stop
                                                                                                                    cial Media Profile
    1 #include<iostream>
                                                                                                            shape_of_you Ed_sheeran pause
```

```
2 using namespace std;
3 class song
     char song[20],artist[20];
char n[20];
public:
      void read()
        cin>>song;
     cin>>n;
}void print();
16 void song::print()
    cout<<"now playing: "<<song<<" by "<<artist<<endl;
cout<<"song "<<n<<endl;</pre>
  int main()
     song s;
s.read();
s.print();
```





```
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Questions
240.
Car Rental System: Design a class to represent cars for a rental service, i
Sample Input:
Enter car model: Toyota Camry
Enter rental cost per day: 50
Sample Output:
Available Cars in the Rental System:
Car Model: Toyota Camry, Rental Cost Per Day: 50, Availability: Available
    1 #include<iostream>
                                                                                                                    toyota_camry 50 avaliable
   2 using namespace std;
3 class car
4 {
         private:
  char name[30],check[20];
         int rent;
public:
          void read()
             cin>>check;
       void car::print()
```

cout<<"Avaliable Cars In Rental System:"<<endl; cout<<"Car Model: "<<name<<"\n"<<"Rent Cost Per One Da cout<<rent<<"\n"<<"Avaliability: "<<check;</pre>

22 } 23 **int** main()

c.read();





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C++ Programming



```
Questions
239
Library Management System: Create a class for a library system that manages
Sample Input:
// Creating an instance of the Library class
Library library;
// Adding books to the library
library.addBook("The Great Gatsby", "F. Scott Fitzgerald");
library.addBook("To Kill a Mockingbird", "Harper Lee");
// Displaying all books in the library
library.displayBooks();
                                                                                                                                                                   Shape Hierarchy
// Issuing a book
library.issueBook("The Great Gatsby");
library.displayBooks();
// Returning a book
library.returnBook("The Great Gatsby");
library.displayBooks();
Sample Output:
Books in the library:
Book Name: The Great Gatsby, Author: F. Scott Fitzgerald, Availability: Ava
Book Name: To Kill a Mockingbird, Author: Harper Lee, Availability: Availab
                                                                                                                                                                   ocial Media Profile
Books in the library:
Book Name: To Kill a Mockingbird, Author: Harper Lee, Availability: Availab
                                                                                                                                                                Vehicle Management
System
Books in the library:
Book Name: The Great Gatsby, Author: F. Scott Fitzgerald, Availability: Ava
Book Name: To Kill a Mockingbird, Author: Harper Lee, Availability: Availab
```

1 #include<iostream>

20 void library::print()

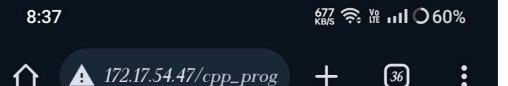
28 int main()

library 1;
l.read();
l.print();

```
2 using namespace std;
3 class library
     private:
char book1[100],author1[50];
char book2[100],author2[50];
      void read()
        cin>>book2;
        cin>>author2;
```

cout<<"Books in library:"<<endl;
cout<<"Book name: "<<book1<<"\n"<<"Author: "<<author1
cout<<"\n"<<"Avaliability: "<<check<<endl;
cout<<"Book name: "<<book2<<"\n"<<"author: "<<author2
cout<<"\n"<<"Avaliability: "<<check;</pre>

f.scott_fitzgerald to_kill_a_mockingbird harper_lee avaliable





C++ Programming



Constions
237

Bank Account Class

Student Record System

Employee Management: Develop a class for an employee with attributes like n
Sample Input:
Employee Insert Solary: 10000
Raise Salary by: 5000
Sample Output:
Employee Name: John Doe
Employee ID: E12345
Salary: 15000

Music Flaver

Inventory Management
System

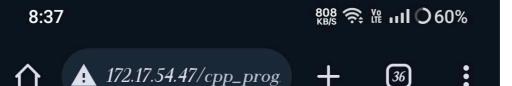
Morie Database
System

Inventory Tracking
System

Vehicle Management
System

1 #include<iostream>
2 using namespace std;
3 class employee
4 {
5 private:
6 char name[50];
7 int id,salary,rise;
8 int ts;
9 public:
10 void read()
11 {
12 cin>>name;
13 cin>>id;
14 cin>>salary;
15 cin>>rise;
16 }
17 void print();
18 };
19 void employee::print()
20 {
21 cout<<"name of employee: "<<name<<endl;
22 cout<<"employee id: E"<<id<endl;
23 ts=salary+rise;
24 cout<<"salary: "<<tts;
25 }
26 int main()
27 {
28 employee e;
29 e.read();
30 e.print();
31 }</pre>

john_deo 12345 10000 5<u>000</u>







```
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Questions
236.
Student Record System: Design a class to manage student records including d
Student Record System: I
Sample Input:
Student Name: Jane Doe
Student ID: 12345
Grades: 85.5 90 87 92.5
Sample Output:
Average Grade: 88.75
                                                                                                                   Shape Hierarchy
   1 #include<iostream>
                                                                                                           janedoe
12345
  2 using namespace std;
3 class student
4 {
```

```
char name[50];
float m1, m2, m3, m4, a;
void read()
  cin>>id;
cin>>m1>>m2>>m3>>m4;
void print();
cout<<"name of student:"<<name<<endl;
cout<<"regs_no of student:"<<id<<endl;
cout<<"marks:"<<m1<<","<<m2<<","<<m3<<","<<m4<<endl;</pre>
a=(m1+m2+m3+m4)/4;
s.read();
s.print();
```

85.5 90 87 92.5















C++ Programming



```
Bank Account Class: Create a C++ class representing a bank account with fun
Sample Input:
Account Number: 1234567890
Account Number: 1234567890
Balance: 5000
Bilance: 5000
Withdraw: 1000
Sample Output:
Account Number: 1234567890
Account Number: 1234567890
Account Number: 1234567890
Account Number: John Doe
Balance: 6000

Shape Hierarchy

Car Restad System

Statem

Shape Hierarchy

Couline Shopping Cart

School Management
System

Social Media Profile
Hospital Management
System

None Database
System

None Database
System

None Database
System

Social Media Profile
System

Vehicle Management
System

Vehicle Management
System

Vehicle Management
System

Caming System

Gaming System

Caming System

Couline Stopping Cart
```

un Save

```
1 #include<iostream>
2 using namespace std;
3 class bank
4 {
5    private:
6    char name[50];
7    int deposite,withdraw,p;
9    public:
10    void read()
11    {
12         cin>>name;
13         cin>>accountno;
14         cin>>balance;
15         cin>>deposite;
16         cin>>withdraw;
17    }
18    void print();
19 };
20   void bank::print()
21 {
22         cout<<"account number: "<<name<<endl;
24         p=(balance+deposite)-withdraw;
25         cout<<"br/>
26 }
27 int main()
28 {
29         bank b;
30         b.read();
31         b.print();
32 }
```

john_deo 1234567890 5000 2000 1000