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

BanK Account Class
Student Record System
Employee Management
Geometry Figures
Library Management System
Car Rental System
Music Player
Inventory Management
Shape Hierarchy
Online Shopping Cart
School Management System
Movie Database
BanKing System with Multiple A
Online Reservation System
Social Media Profile
Hospital Management System
Inventory Tracking System
Restaurant Ordering System
Vehicle Management System
Gaming System

Run Save

```cpp
#include<iostream>
using namespace std;
class cart
{
  private:
  char c[20];
  int n,m,price;
  public:
  void read()
  {
    cin>>c;
    cin>>price;
    cin>>n;
    cin>>m;
  }
  void print();
};
void cart::print()
{
  cout<<"items added to cart: "<<c<<endl;
  cout<<"price: "<<price<<endl;
  cout<<"quantity: "<<n<<endl;
  cout<<"item removing from cart: "<<c<<endl;
  cout<<"remaining quantity: "<<m;
}
int main()
{
  cart c;
  c.read();
  c.print();
}
```

```
laptop 1000 2 1
```

Questions
241.

Music Player: Construct a class representing a music player with functional

```
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

Sample Input:
stop
Sample Output:
Song stop
```

BanK Account Class
Student Record System
Employee Management
Geometry Figures
Library Management System
Car Rental System
Music Player
Inventory Management
Shape Hierarchy
Online Shopping Cart
School Management System
Movie Database
BanKing System with Multiple A
Online Reservation System
Social Media Profile
Hospital Management System
Inventory TracKing System
Restaurant Ordering System
Vehicle Management System
Gaming System

Run Save

```cpp
#include<iostream>
using namespace std;
class song
{
  private:
  char song[20],artist[20];
  char n[20];
  public:
  void read()
  {
    cin>>song;
    cin>>artist;
    cin>>n;
  }void print();
};
void song::print()
{
  cout<<"now playing: "<<song<<" by "<<artist<<endl;
  cout<<"song "<<n<<endl;
}
int main()
{
  song s;
  s.read();
  s.print();
}
```

```
shape_of_you Ed_sheeran pause
```

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

BanK Account Class
Student Record System
Employee Management
Geometry Figures
Library Management System
Car Rental System
Music Player
Inventory Management
Shape Hierarchy
Online Shopping Cart
School Management System
Movie Database
BanKing System with Multiple A
Online Reservation System
Social Media Profile
Hospital Management System
Inventory TracKing System
Restaurant Ordering System
Vehicle Management System
Gaming System

Run Save

```
#include<iostream>
using namespace std;
class car
{
  private:
  char name[30],check[20];
  int rent;
  public:
  void read()
  {
    cin>>name;
    cin>>rent;
    cin>>check;
  }
  void print();
};
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;
}
int main()
{
  car c;
  c.read();
  c.print();
}
```

```
toyota_camry 50 avaliable
```

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();

// 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

Books in the library:
Book Name: To Kill a Mockingbird, Author: Harper Lee, Availability: Availab

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
```

BanK Account Class | Student Record System
Employee Management | Geometry Figures
Library Management System | Car Rental System
Music Player | Inventory Management
Shape Hierarchy | Online Shopping Cart
School Management System | Movie Database
BanKing System with Multiple A | Online Reservation System
Social Media Profile | Hospital Management System
Inventory TracKing System | Restaurant Ordering System
Vehicle Management System | Gaming System

Run | Save

```
#include<iostream>
using namespace std;
class library
{
  private:
  char book1[100],author1[50];
  char book2[100],author2[50];
  char check[20];
  public:
  void read()
  {
    cin>>book1;
    cin>>author1;
    cin>>book2;
    cin>>author2;
    cin>>check;
  }
  void print();
};
void library::print()
{
  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;
}
int main()
{
  library l;
  l.read();
  l.print();
}
```

```
the_grate_gatsby
f.scott_fitzgerald
to_kill_a_mockingbird
harper_lee
avaliable
```

Questions
237.

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

BanK Account Class
Student Record System
Employee Management
Geometry Figures
Library Management System
Car Rental System
Music Player
Inventory Management
Shape Hierarchy
Online Shopping Cart
School Management System
Movie Database
BanKing System with Multiple A
Online Reservation System
Social Media Profile
Hospital Management System
Inventory TracKing System
Restaurant Ordering System
Vehicle Management System
Gaming System

Run Save

```
#include<iostream>
using namespace std;
class employee
{
  private:
  char name[50];
  int id,salary,rise;
  int ts;
  public:
  void read()
  {
    cin>>name;
    cin>>id;
    cin>>salary;
    cin>>rise;
  }
  void print();
};
void employee::print()
{
  cout<<"name of employee: "<<name<<endl;
  cout<<"employee id: E"<<id<<endl;
  ts=salary+rise;
  cout<<"salary: "<<ts;
}
int main()
{
  employee e;
  e.read();
  e.print();
}
```

```
john_deo 12345 10000 5000
```

Questions
236.

Student Record System: Design a class to manage student records including d
Sample Input:
Student Name: Jane Doe
Student ID: 12345
Grades: 85.5 90 87 92.5
Sample Output:
Average Grade: 88.75

BanK Account Class | Student Record System
Employee Management | Geometry Figures
Library Management System | Car Rental System
Music Player | Inventory Management
Shape Hierarchy | Online Shopping Cart
School Management System | Movie Database
BanKing System with Multiple A | Online Reservation System
Social Media Profile | Hospital Management System
Inventory TracKing System | Restaurant Ordering System
Vehicle Management System | Gaming System

Run Save

```cpp
#include<iostream>
using namespace std;
class student
{
  private:
  char name[50];
  int id;
  float m1,m2,m3,m4,a;
  public:
  void read()
  {
    cin>>name;
    cin>>id;
    cin>>m1>>m2>>m3>>m4;
  }
  void print();
};
void student::print()
{
  cout<<"name of student:"<<name<<endl;
  cout<<"regs_no of student:"<<id<<endl;
  cout<<"marks:"<<m1<<","<<m2<<","<<m3<<","<<m4<<endl;
  a=(m1+m2+m3+m4)/4;
  cout<<a;
}
int main()
{
  student s;
  s.read();
  s.print();
}
```

```
janedoe
12345
85.5
90
87
92.5
```

Questions
235.

Bank Account Class: Create a C++ class representing a bank account with fun
Sample Input:
Account Number: 1234567890
Account Holder Name: John Doe
Balance: 5000
Deposits: 2000
Withdraw: 1000
Sample Output:
Account Number: 1234567890
Account Holder Name: John Doe
Balance: 6000

BanK Account Class
Student Record System
Employee Management
Geometry Figures
Library Management System
Car Rental System
Music Player
Inventory Management
Shape Hierarchy
Online Shopping Cart
School Management System
Movie Database
BanKing System with Multiple A
Online Reservation System
Social Media Profile
Hospital Management System
Inventory TracKing System
Restaurant Ordering System
Vehicle Management System
Gaming System

Run Save

```cpp
#include<iostream>
using namespace std;
class bank
{
  private:
  char name[50];
  int accountno,balance;
  int deposite,withdraw,p;
  public:
  void read()
  {
    cin>>name;
    cin>>accountno;
    cin>>balance;
    cin>>deposite;
    cin>>withdraw;
  }
  void print();
};
void bank::print()
{
  cout<<"accout holder name: "<<name<<endl;
  cout<<"account number: "<<accountno<<endl;
  p=(balance+deposite)-withdraw;
  cout<<"balance: "<<p<<endl;
}
int main()
{
  bank b;
  b.read();
  b.print();
}
```

```
john_deo 1234567890 5000
2000
1000
```