Write a Java program to allow the user to play a quiz 5 random question game:

>> To start the game press 1 to exit press 0

>> 1

>> Question 1?

>> 1. X

>> 2. Y

>> 3. Z

>> 3

>> Question 2?

>> 1. X

>> 2. Y

>> 3. Z

Create a Java application to manage a list of Accesses to Museums.

Each **Museum** is described by its Name and the City and each **Access/Ticket** is described by: UserID, Name, Surname, Gender, Date + Hour and Minutes of the access and the cost of the ticket.

Create a solution to not allow fraud: if there is ticket access for the Antipa Museum in Bucharest on 5/09 10 am then is impossible to have the same ticket for Paris.

Sa se scrie o aplicatie Java pentru a implementa un Vending Machine App. A se folosi Dependency Injection astfel incat sa putem schimba Furnizorul de produse cu o minima schimbare in cod:

Furnizor A. -> lista de produse {produs1, produs2, produsn}

Furnizor B -> lista de produse {produs1, produs2, produsn}

Detalii de functionalitate:

User interface: sa se creeze un menu de selectie a produselor, inserare banuti si primire rest. (pt usurinta folosim doar 50 bani)

Logica aparat: modalitate de aprovizionare, sa se verifice ca sunt suficient bani pt rest, verificare stoc produs selectat, eliminare produs selectat din cantitatea totala.

Write a Java program to simulate a bank account and the program to test it.

Account class will include: (instance variables)

account number

last name, first Name

beginning balance  
end balance  
total withdrawal  
total deposit

Test the program to execute some withdrawal and more deposits. Display the balance of the account at the end.

**Write a java program using a doubly linked list to support a music playlist.**

* **Skip Back/Forward (because each node in a double linked list has a pointer the previous and next node, it is easy to implement skip forward/backward functionality.)**
* **Play Next Track (the pointer to the next node also makes it quite easy to start the next track when a track is over.)**
* **Append (when you add a new track to a playlist, you tack it on to the end. In a linked list, adding a new element is constant time — O(1) operation.)**
* **Beginning/End (because a linked list has head and tail properties, this provides for an easy way to delineate the beginning and end of a playlist.)**

**More details in the course file.**