Week 3 – Spot Questions

Write a C program to simulate an ATM menu using a `do-while` loop. The program should provide the following options:

```
1. Check Balance
2. Deposit
3. Withdraw
4. Exit
```

Assumptions:

- Initial balance = ₹10,000.
- Withdrawal amount must not exceed the available balance.
- Withdrawal amount must be positive.
- Deposit amount must be positive.
- The menu should continue to appear until the user selects Exit.

Test Case:

```
1 → Balance = ₹10000
2 → Deposit ₹5000 → Balance = ₹15000
3 → Withdraw ₹3000 → Balance = ₹12000
1 → Balance = ₹12000
4 → Exit
```

2) Write a C program that asks the user to enter a password. Allow the user a maximum of three attempts. Use a `goto` statement to repeat the password entry when the password is incorrect.

Assumption:

- Correct password = `CSE123`.

Test Cases:

```
Enter password: abc
Incorrect password.

Enter password: xyz
Incorrect password.

Enter password: CSE123
Login successful.
```

Another test:

```
Enter password: abc
Incorrect password.

Enter password: xyz
Incorrect password.

Enter password: pqr
Incorrect password.

Maximum attempts exceeded.
```