

## **BANKING SYSTEM – CONTROL STRUCTURE**

### **TASK 6: BANK TRANSACTION HISTORY DETAILS**

- Uses an ArrayList to store transactions.
- A while loop keeps running until the user chooses to exit.
- User can deposit or withdraw money.
- Ensures that the withdrawal amount does not exceed the balance.
- Displays the transaction history upon exit.

### **JAVA PROGRAM:**

```
import java.util.*;
public class Task6 {
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        List<String> list=new ArrayList<>();
        double balance=0;
        while(true){
            System.out.println("Choose a transaction");
            System.out.println("1.Deposit");
            System.out.println("2.Withdraw");
            System.out.println("3.Exit");
            System.out.println("Enter your choice:");
            int choice=sc.nextInt();
            if(choice==1){
                System.out.println("Enter deposit amount:");
                double amt=sc.nextDouble();
                if(amt>0){
                    balance+=amt;
                    list.add("Deposit: "+amt);
                    System.out.println("Deposit successful");
                }
                else{
                    System.out.println("Invalid amount");
                }
            }
            else if(choice==2){
                System.out.println("Enter withdrawal amount:");
                double amt=sc.nextDouble();
                if(amt>0 && amt<=balance){
                    balance-=amt;
                    list.add("Withdraw: "+amt);
                    System.out.println("Withdraw successful");
                }
            }
        }
    }
}
```

```
        else{
            System.out.println("Invalid amount");
        }
    }
    else if(choice==3){
        System.out.println("\nTransaction History:");
        if(list.isEmpty()){
            System.out.println("No transactions made");
        }
        else{
            for(String t:list){
                System.out.println(t);
            }
            System.out.println("Balance amount: "+balance);
        }
        break;
    }
    else{
        System.out.println("Invalid choice");
    }
}

}

}
```

## OUTPUT:

```
Choose a transaction
1.Deposit
2.Withdraw
3.Exit
Enter your choice:
1
Enter deposit amount:
2000
Deposit successful
Choose a transaction
1.Deposit
2.Withdraw
3.Exit
Enter your choice:
2
Enter withdrawal amount:
1000
Withdraw successful
Choose a transaction
1.Deposit
2.Withdraw
3.Exit
Enter your choice:
3

Transaction History:
Deposit: 2000.0
Withdraw: 1000.0
Balance amount: 1000.0
```