#### **BANKING SYSTEM – CONTROL STRUCTURE**

#### TASK 4:LOOPING, ARRAY AND DATA VALIDATION

# **Customer Data Input & Storage**

- The program first asks the user to enter the number of customers.
- It then loops n times to get each customer's account number and balance, storing them in arrays.

### Validating & Retrieving Account Balance:

- The program enters a loop asking the user to enter an account number.
- It checks if the entered account number exists in the Array.
- If valid, it prints the account balance and exits the loop.
- If invalid, it prompts the user again.

# **JAVA PROGRAM:**

```
import java.util.*;
public class Task4 {
  public static void main(String[] args){
  Scanner sc = new Scanner(System.in);
     System.out.println("Enter number of customers:");
     int n = sc.nextInt();
     sc.nextLine();
     String[] accountNumbers = new String[n];
     double[] balances = new double[n];
     for(int i = 0; i < n; i++){
       System.out.print("Enter account number " + (i + 1) + ": ");
       accountNumbers[i] = sc.nextLine();
       System.out.print("Enter balance amount: ");
       balances[i] = sc.nextDouble();
       sc.nextLine();
     while(true){
       System.out.println("Enter account number to check balance:");
       String accountNum = sc.nextLine();
       boolean found = false;
       for(int i = 0; i < n; i++){
          if(accountNumbers[i].equals(accountNum)){
            System.out.printf("Account Balance: %.2f \n", balances[i]);
            found = true;
            break;
          }
       if(found) break;
```

```
else System.out.println("Invalid account number");
   }
  }
}
OUTPUT:
 Enter number of customers
 Enter account number 1:1234
 Enter balance amt: 5000
 Enter account number 2:5678
 Enter balance amt: 6000
 Enter account number to check balance:
 1234
 Account Balance: 5000.00
 BUILD SUCCESSFUL (total time: 22 seconds)
 Enter number of customers
 Enter account number 1:1234
 Enter balance amt: 5000
 Enter account number 2:5678
 Enter balance amt: 6000
 Enter account number to check balance:
 3456
 Invalid account number
 Enter account number to check balance:
 Account Balance: 5000.00
 BUILD SUCCESSFUL (total time: 1 minute 12 seconds)
```