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| **Experiment No.** | 1B |

| **AIM:** | To write a program to demonstrate classes and objects. |
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| **Program 1** | |
| **PROBLEM STATEMENT :** | Define a class to represent a bank account. Include the following members:  Data members  a. Name of the depositor  b. Account number  c. Type of account  d. Balance amount in the account  Member functions  a. To assign initial value  b. To deposit an amount  c. To withdraw an amount after checking the balance  d. To display name and balance  Write a main program to test the program. |
| **PROGRAM:** | import java.util.Scanner;  class Bankdetails  {  String Name;  String Accountno;  String Accounttype;  int Balance;  int deposit;  int withdraw;  Scanner sc=new Scanner(System.in);  public void assignvalue()  {  System.out.println("Enter depositor's name");  Name=sc.nextLine();  System.out.println("Enter account number");  Accountno=sc.nextLine();  System.out.println("Enter account type");  Accounttype=sc.nextLine();  System.out.println("Enter account balance");  Balance=sc.nextInt();  }  public void deposit()  {  System.out.println("Enter amount to deposit");  deposit=sc.nextInt();  Balance += deposit;  System.out.println("Balance after deposit is: " + Balance);  }  public void withdraw()  {  System.out.println("Enter amount to withdraw");  withdraw=sc.nextInt();  if(withdraw>Balance)  System.out.println("Balance insufficient");  else {  Balance -= withdraw;  System.out.println("Balance after withdrawal is: " + Balance);  }  }  public void displaydetails()  {  System.out.println("Account Holder: " + Name);  System.out.println("Account Number: " + Accountno);  System.out.println("Account Type: " + Accounttype);  System.out.println(" Balance: " + Balance);  }  }  class Account  {  public static void main(String[] args){  Bankdetails account1= new Bankdetails();  Scanner sc1=new Scanner(System.in);  int control=1;  int choice;  account1.assignvalue();  while(control!=0){  System.out.println("1. Deposit money");  System.out.println("2. Withdraw money");  System.out.println("3.Display account holder’s name and balance");  choice=sc1.nextInt();  switch(choice)  {  case 1:  account1.deposit();  break;  case 2:  account1.withdraw();  break;  case 3:  account1.displaydetails();  break;  }  System.out.println("Press 0 to exit or press any other number to run program again");  control=sc1.nextInt();  sc1.nextLine();  }  }  } |
| **RESULT:** | |
| **Program 2** | |
| **PROBLEM STATEMENT :** | Write a program in Java to maintain the information of Movies which includes the information of :  1-name of movie  2- type of movie( action , thriller , comedy ,drama )  3- Hero name  4- Heroine  5- budget in Rs.  include method to  1- display this information  Q.1 Write a program to accept the information of movies from user and display the same.  Q.2 Create two different objects of the same and Diplay the movie name having highest budget. |
| **PROGRAM:** | import java.util.Scanner;  class diary{  String moviename;    String genre;    String hero;    String heroine;    double budget(double c){  return c;  }    void displaydetails(String q, String w, String e, String r, double t){  System.out.println("Name : " + q);  System.out.println("Genre : " + w);  System.out.println("Name of Hero : " + e);  System.out.println("Name of Heroine : " + r);  System.out.println("Budget : " + t);  }    }  class movie{  public static void main(String []arr){    Scanner sc = new Scanner(System.in);    System.out.print("Enter details of 1st movie -\nName of movie : ");  String name1 = sc.nextLine();    System.out.print("Genre : ");  String genre1 = sc.nextLine();    System.out.print("Name of hero : ");  String hero1 = sc.nextLine();    System.out.print("Name of heroine : ");  String heroine1 = sc.nextLine();    System.out.print("Budget : ");  double budget1 = sc.nextInt();  sc.nextLine();  diary a = new diary();    System.out.print("Enter details of 2nd movie -\nName of movie : ");  String name2 = sc.nextLine();    System.out.print("Genre : ");  String genre2 = sc.nextLine();    System.out.print("Name of hero : ");  String hero2 = sc.nextLine();    System.out.print("Name of heroine : ");  String heroine2 = sc.nextLine();    System.out.print("Budget : ");  double budget2 = sc.nextInt();  sc.nextLine();  diary b = new diary();    System.out.println("\nDetails of 1st movie : ");  a.displaydetails(name1,genre1,hero1,heroine1,budget1);  System.out.println("\nDetails of 2nd movie : ");  b.displaydetails(name2,genre2,hero2,heroine2,budget2);      if(budget1>budget2){  System.out.println("\nName of movie having higher budget : " + name1);  }  else{  System.out.println("\nName of movie having higher budget : " + name2);  }  }  } |
| **RESULT:** | |
| **CONCLUSION:** | Studied the demonstration of classes and objects to solve given problems. |