1.Write a Java program to calculate the average value of array elements.

import java.util.Scanner;

public class array\_avg

{

public static void main(String[]args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the length of the array");

int l = sc.nextInt();

int arr[] = new int[l];

System.out.println("enter the elements");

for(int i=0;i<l;i++)

{

arr[i]=sc.nextInt();

}

System.out.print("the array is ");

int sum = 0;

for(int i=0;i<l;i++)

{

System.out.print(arr[i]+ " ");

sum = sum +arr[i];

}

System.out.println("");

float avg = sum/l;

System.out.print("the sum of the array is " +sum+ " and the average is " +avg);

}

}

2. EMPLOYEE

import java.util.Scanner;

public class employee

{

public void emp\_detail()

{

Scanner sc = new Scanner(System.in);

String data[] = new String[5];

System.out.println("enter the details");

for(int i=0;i<5;i++)

{

data[i] = sc.nextLine();

}

System.out.println("");

System.out.println("the employee details are \n");

for(int j=0;j<5;j++)

{

System.out.println(data[j]);

}

}

public static void main(String[]args)

{

employee em = new employee();

em.emp\_detail();

}

}

3. TRAIN DETAILS

import java.util.Scanner;

public class train\_reservation

{

int Train\_NO;

String Train\_Name;

String Route;

String date;

String dept\_time;

String arri\_time;

public void details()

{

Scanner sc = new Scanner(System.in);

String d[] = new String[6];

System.out.println("Enter the details");

for(int i=0;i<6;i++)

{

d[i]=sc.nextLine();

}

Train\_NO = Integer.parseInt(d[0]);

Train\_Name = d[1];

Route = d[2];

date = d[3];

dept\_time = d[4];

arri\_time = d[5];

}

public void display()

{

this.details();

System.out.println("thr train details are");

System.out.println("Train Number is: " +Train\_NO);

System.out.println("Train Name is: " +Train\_Name);

System.out.println("The route of the train is: " +Route);

System.out.println("DATE of the travel: " +date);

System.out.println("Time of the train departure: " +dept\_time);

System.out.println("The train will arrive at: " +arri\_time);

}

public static void main(String[]args)

{

train\_reservation tr = new train\_reservation();

tr.display();

}

}

4. Write a program to create a class that stores the grocery details. In addition, define three methods that will add the weight, remove the weight, and display the current weight, respectively..

import java.util.Scanner;

public class groceries

{

static Float weight;

public void addweight(int w)

{

weight += w;

}

public void remove\_Weight(int w)

{

weight -=w;

}

public void display\_weight()

{

System.out.println(weight);

}

public static void main(String[]args)

{

Scanner sc = new Scanner(System.in);

System.out.println("enter the name of the grocery: ");

String G = sc.nextLine();

System.out.println("enter the price of the grocery: ");

int price = sc.nextInt();

System.out.println("enter the weight of the grocery: ");

weight = sc.nextFloat();

System.out.println("How much weight do you want to increase/decrease: ");

String d= sc.nextLine();

int w = sc.nextInt();

groceries gr = new groceries();

System.out.println("Current weight is:");

gr.display\_weight();

System.out.println("After adding the weight is :");

gr.addweight(w);

gr.display\_weight();

System.out.println("After removing the weight is: " );

gr.remove\_Weight(w);

gr.display\_weight();

}

}

5. Switch case for EmployeeDetails

import java.util.Scanner;

public class EmployeeDetails

{

public void EnterData()

{

System.out.println("Enter data is invoked");

}

public void DisplayData()

{

System.out.println("Display data is invoked");

}

public void EXIT()

{

System.out.println("Exit method is invoked");

System.exit(0);

}

public static void main(String[]args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the option 1/2/3");

int option = sc.nextInt();

EmployeeDetails ed = new EmployeeDetails();

switch(option)

{

case 1:

ed.EnterData();

break;

case 2:

ed.DisplayData();

break;

case 3:

ed.EXIT();

break;

}

}

}