//=========================================================================

// Name : hello.java

// Author : GAURAV HOSKOTE

// Copyright :

// Description : Write a program in java to find the average of n numbers,

//

//

//

//=========================================================================

**package** hello;

**import** java.util.Scanner;

**public** **class** hello {

**public** **static** **void** main(String args[]){

**int** choice;

**boolean** breakloop=**true**;

Scanner inp = **new** Scanner(System.*in*);

members obj=**new** members();

**while**(breakloop){

System.*out*.println("Enter your choice");

System.*out*.println("1)Average");

System.*out*.println("2)Prime");

System.*out*.println("3)Factorial");

System.*out*.println("4)Exit");

choice=inp.nextInt();

**switch**(choice){

**case** 1:

obj.avg();

**break**;

**case** 2:

obj.prime();

**break**;

**case** 3:

obj.factorial();

**break**;

**case** 4:

breakloop=**false**;

}

}

}

}

**class** members{

Scanner inp = **new** Scanner(System.*in*);

**void** avg(){

**float** n, ui, i, sum=0, avg;

System.*out*.println("Enter the number of elements for finding average.");

n=inp.nextInt();

System.*out*.println("Enter the elements");

**for**(i=1;i<=n;i++){

ui=inp.nextInt();

sum=sum+ui;

}

avg=sum/n;

System.*out*.println("Average= "+avg);

}

**void** prime(){

**int** i, j, r, incr=0;

System.*out*.println("The first 50 prime numbers are:");

**for**(i=50;i>=2;i--){

**for**(j=i-1;j>=2;j--){

r=i%j;

**if**(r==0){

incr=incr+1;

}

}

**if**(incr==0){

System.*out*.println(i);

}

incr=0;

}

}

**void** factorial(){

**int** i, n, prod=1;

System.*out*.println("Enter the number");

n=inp.nextInt();

**if**(n>=1){

**for**(i=n;i>=1;i--){

prod=prod\*i;

}

System.*out*.println("Factorial="+" "+prod);

}

**else** **if**(n<1){

System.*out*.println("Factorial does not exist");

}

}

}