**package** com.sgtesting.accessspecifier;

**import** java.io.\*;

**import** java.util.\*;

**public** **class** Highpeak {

**static** **int** minDiff(**int** array[], **int** N, **int** M)

{

**int** result = Integer.***MAX\_VALUE***;

Arrays.*sort*(array);

**for** (**int** i=0; i<= N-M;i++)

result = Math.*min*(result, array[i + M - 1] - array[i]);

**return** result;

}

**static** **int** findelements(**int** res,**int** array[], **int** N, **int** M)

{

**int** result = Integer.***MAX\_VALUE***;

**for**(**int** i=0; i<=N; i++)

{

result = Math.*min*(result, array[i + M - 1] - array[i]);

**if** (res==result)

**return** i;

}

**return** 0;

}

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

**int** array[]={7980,22349,999,2799,229900,11101,9999,2195,9800,4999};

String items[]={ "MI Band: 999","Sandwich Toaster: 2195" ,"Cult Pass: 2799","Scale: 4999","Fitbit Plus: 7980","Microwave Oven: 9800" ,"Alexa: 9999","Digital Camera: 11101", "IPods: 22349","Macbook Pro: 229900" };

**int** N = array.length;

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

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

**int** M=s.nextInt();

**int** result=*minDiff*(array, N, M);

System.***out***.println("Number of the employees:"+M);

**int** startindex=*findelements*(result,array,N,M);

System.***out***.println("Here the goodies that are selected for distribution are:");

**for**(**int** i=startindex;i<startindex+M;i++)

System.***out***.println(items[i]);

System.***out***.println("\n");

System.***out***.println("And the difference between the chosen goodies with highest price and the lowest price is:"+result);

}

}

Sample inputs & outputs:

Enter the number of employees

2

Number of the employees:2

Here the goodies that are selected for distribution are:

Microwave Oven: 9800

Alexa: 9999

And the difference between the chosen goodies with highest price and the lowest price is:199

Enter the number of employees

4

Number of the employees:4

Here the goodies that are selected for distribution are:

Fitbit Plus: 7980

Microwave Oven: 9800

Alexa: 9999

Digital Camera: 11101

And the difference between the chosen goodies with highest price and the lowest price is:3121

Enter the number of employees

6

Number of the employees:6

Here the goodies that are selected for distribution are:

Sandwich Toaster: 2195

Cult Pass: 2799

Scale: 4999

Fitbit Plus: 7980

Microwave Oven: 9800

Alexa: 9999

And the difference between the chosen goodies with highest price and the lowest price is:7804