## **ASSIGNMENT\_12**

```
1) All Vowels: package assignment12;
import java.util.LinkedHashSet;
import java.util.Scanner;
public class Assign12 {
public static void main(String[] a)
Scanner scan=new Scanner(System.in);
System.out.println("Enter the word");
String str=scan.next();
String
str1=str.replaceAll("[^aeiouAEIOU]", "");
LinkedHashSet <Character>set=new
LinkedHashSet<Character>();
for(int i=0;i<str1.length();i++)</pre>
set.add(str1.charAt(i));
if(set.size()==5)
System.out.println("Valid");
else
```

```
System.out.println("Invalid");
}
```

Output;

```
Enter the word
santaehiauonam
Valid
```

## 2)Employee Bonus:

```
package assignment12;
import java.util.HashMap;
import java.util.Map;
import java.util.Scanner;
import java.util.StringTokenizer;
import java.util.TreeMap;
public class EmpBonus {
public static void main(String[] args) {
```

```
Scanner scan=new Scanner(System.in);
int n=scan.nextInt();
int[] Id=new int[n];
String[] Date=new String[n];
HashMap<Integer,String> hm1=new
HashMap<Integer,String>();
HashMap<Integer, Integer> hm2=new
HashMap<Integer,Integer>();
TreeMap<Integer, Integer> t1=new
TreeMap<Integer,Integer>();
for(int i=0;i<n;i++)</pre>
System.out.println("Enter the Emp id");
int id=scan.nextInt();
Id[i]=id;
scan.nextLine();
System.out.println("Enter the date
format(dd-mm-yy)");
String date=scan.nextLine();
Date[i]=date;
System.out.println("Enter tha salary");
```

```
int salary=scan.nextInt();
hm1.put(id, date);
hm2.put(id, salary);
int \underline{d}=0, y=0, \underline{m}=0, sals=0;
for(int i=0;i<Date.length;i++) {</pre>
StringTokenizer st1= new
StringTokenizer(Date[i],"-");
while(st1.hasMoreTokens()) {
d=Integer.parseInt(st1.nextToken());
m=Integer.parseInt(st1.nextToken());
y=Integer.parseInt(st1.nextToken());
int age=0;
if(y<2014) {
age=2014-y;}
else {
System.out.println("Invalid Date");
if(age>25 && age<=30) {</pre>
```

```
sals=hm2.get(Id[i]);
sals=sals+((sals*2)/10);
else if(age>30 && age<=60) {</pre>
sals=hm2.get(Id[i]);
sals=sals+((sals*3)/10);
t1.put(Id[i],sals);
for(Map.Entry<Integer, Integer>
e:t1.entrySet()) {
System.out.println("Emp
Id:"+e.getKey()+"\nEmp
Salary:"+e.getValue());
```

```
Enter the Emp id
1010
Enter the date format(dd-mm-yy)
20-12-1987
Enter tha salary
10000
Enter the Emp id
1011
Enter the date format(dd-mm-yy)
1-1-1985
Enter tha salary
14400
Emp Id:1010
Emp Salary:12000
Emp Id:1011
Emp Salary:17280
```

```
package assignment12;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Scanner;
public class MaxValue {
public static String
getMaxValue(HashMap<Integer,String> a)
int max=0;
String str=null;
Iterator it=a.keySet().iterator();
while(it.hasNext()) {
int key=(int) it.next();
if(key>max)
max=key;
String val=a.get(max);
str=val;
```

```
return str;
public static void main(String[] args) {
Scanner scan=new Scanner(System.in);
System.out.println("Enter the Number:");
int n=scan.nextInt();
HashMap<Integer,String>HM=new
HashMap<Integer,String>();
for(int i=0;i<n;i++)</pre>
System.out.println("Enter the
keyNumber:");
int key=scan.nextInt();
scan.nextLine();
System.out.println("Enter the
keyValue:");
String value=scan.nextLine();
HM.put(key, value);
String val= MaxValue.getMaxValue(HM);
System.out.println("Max Value:" +val);
```

```
}
}
```

Out put:

```
Enter the keyNumber:

12
Enter the keyValue:
sandy
Enter the keyNumber:

15
Enter the keyValue:
santhanam
Max value: santhanam
```