1. Problem Statement – Vohra went to a movie with his friends in a Wave theatre and during break time he bought pizzas, puffs and cool drinks. Consider the following prices :

Rs.100/pizza

Rs.20/puffs

Rs.10/cooldrink

Generate a bill for What Vohra has bought.

Sample Input 1:

Enter the no of pizzas bought:10

Enter the no of puffs bought:12

Enter the no of cool drinks bought:5

Sample Output 1:

Bill Details

No of pizzas:10

No of puffs:12

No of cooldrinks:5

Total price=1290

Sol-

**package ShreyaMedam;  
  
  
import java.util.Scanner;  
  
public class VohraBill {  
 public static void main(String[] args) {  
  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.print("Enter the no of pizzas bought:");  
 int pizzas = sc.nextInt();  
  
 System.*out*.print("Enter the no of puffs bought:");  
 int puffs = sc.nextInt();  
  
 System.*out*.print("Enter the no of cool drinks bought:");  
 int coolDrinks = sc.nextInt();  
  
 System.*out*.println();  
 System.*out*.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");  
 System.*out*.println("\t\t\t\tBill Details");  
 System.*out*.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");  
  
 System.*out*.println("the no of pizzas bought :\t\t "+pizzas);  
 System.*out*.println("he no of puffs bought : \t\t "+puffs);  
 System.*out*.println("the no of cool drinks bought :\t "+coolDrinks);  
 System.*out*.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");  
  
 System.*out*.println("Total Price \t\t\t\t= "+(pizzas\*100+ puffs\*20+ coolDrinks\*10)+" Rs");  
  
 System.*out*.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");  
  
 }  
}**

2. Problem Statement – Ritik wants a magic board, which displays a character for a corresponding number for his science project. Help him to develop such an application. For example when the digits 65,66,67,68 are entered, the alphabet ABCD are to be

# displayed.

[Assume the number of inputs should be always 4 ]

Sample Input 1:

Enter the digits:

65

# 66

# 67

68

Sample Output 1:

65-A

# 66-B

# 67-C

68-D

Sample Input 2:

Enter the digits:

115

116

101

112

Sample Output 2:

115-s

116-t

101-e

112-p

**Sol-package ShreyaMedam;  
import java.util.Scanner;  
public class MagicBoard {  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.print("Enter the four Digits for printing alphabet corresponding entered number to letters:");  
 int a = sc.nextInt();  
 int b = sc.nextInt();  
 int c = sc.nextInt();  
 int d = sc.nextInt();  
 if((a >=65 && a<=90)||(a>= 97 && a <= 122)) {  
 System.*out*.println(a + " - " + (char) (a));  
 }  
 else {  
 System.*out*.println(a + " is not valid entry.");  
 }  
 if ((b >= 65 && b <= 90) ||( b >= 97 && b <= 122)){  
 System.*out*.println(b + " - " + (char) (b));}  
 else {  
 System.*out*.println(b + " is not valid entry.");  
 }  
 if ((c >= 65 && c < 90)||( c >= 97 && c <= 122))  
 System.*out*.println(c + " - " + (char) (c));  
 else  
 System.*out*.println(c + " is not valid entry.");  
  
 if ((d >= 65 && d <= 90 )|| (d >= 97 && d <= 122)) {  
 System.*out*.println(d + " - " + (char) (d));  
 }  
 else {  
 System.*out*.println(d + " is not valid entry.");  
 }  
 }  
 }**

3. Problem Statement – FOE college wants to recognize the department which has succeeded in getting the maximum number of placements for this academic year. The departments that have participated in the recruitment drive are CSE,ECE, MECH. Help the college find the department getting maximum placements. Check for all the possible output given in the sample snapshot

Note : If any input is negative, the output should be “Input is Invalid”. If all department has equal number of placements, the output should be “None of the department has got the highest placement”.

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**package ShreyaMedam;  
import java.util.Scanner;  
public class MaxPlace {  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.print("Enter the number of CSE department getting placements Students :");  
 int cse = sc.nextInt();  
 System.*out*.print("Enter the number of ECE department getting placements Students :");  
 int ece = sc.nextInt();  
 System.*out*.print("Enter the number of MECH department getting placements Students :");  
 int mech = sc.nextInt();  
  
 if ((cse < 0) || (ece < 0) || (mech < 0)) {  
 System.*out*.println("Input is Invalid");  
 } else if ((cse == ece) && (cse == mech)) {  
 System.*out*.println("all department has equal number of placements:" + mech + "\nNone of the department has got the highest placement ");  
 } else if ((cse > ece) && (cse > mech)) {  
 System.*out*.println("the CSE department getting maximum placements :" + cse);  
 } else if ((ece > cse) && (ece > mech)) {  
 System.*out*.println("the ECE department getting maximum placements :" + ece);  
 } else if ((mech > cse) && (mech > ece)) {  
 System.*out*.println("the Mech department getting maximum placements :" + mech);  
 } else if (cse == ece) {  
 System.*out*.println("CSE & ECE has got highest placement");  
 } else if (cse == mech) {  
 System.*out*.println("CSE & MECH has got highest placement");  
 } else {  
 System.*out*.println("MECH & ECE has got highest placement");  
 }  
 }  
}**