**LAB EXERCISES**

1) **Take three numbers from the user and print the greatest number.**

*Code:*

import java.util.Scanner;

public class eg

{

public static void main(String[] args)

{

int a, b, c, largest, temp;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the first number:");

a = sc.nextInt();

System.out.println("Enter the second number:");

b = sc.nextInt();

System.out.println("Enter the third number:");

c = sc.nextInt();

temp=a>b?a:b;

largest=c>temp?c:temp;

System.out.println("The largest number is: "+largest);

}

}

**2) Write a Java program that keeps a number from the user and generates an integer between 1 and 7 and displays the name of the weekday.**

*Code:*

import java.util.Scanner;

public class eg1

{

public static void main(String[] args)

{

Scanner in = new Scanner(System.in);

System.out.print("Input number: ");

int day = in.nextInt();

System.out.println(getDayName(day));

}

public static String getDayName(int day) {

String dayName = "";

switch (day) {

case 1: dayName = "Monday"; break;

case 2: dayName = "Tuesday"; break;

case 3: dayName = "Wednesday"; break;

case 4: dayName = "Thursday"; break;

case 5: dayName = "Friday"; break;

case 6: dayName = "Saturday"; break;

case 7: dayName = "Sunday"; break;

default:dayName = "Invalid day range";

}

return dayName;

}

}

**3) A shop will give discount of 10% if the cost of purchased quantity is more than 1000.**

**Ask user for quantity Suppose, one unit will cost 100. Judge and print total cost for user.**

*Code:*

import java.util.Scanner;

class eg2

{

public static void main(String[] args){

Scanner s = new Scanner(System.in);

System.out.println("Enter quantity");

int x = s.nextInt();

if((x\*100)>1000){

System.out.println("You get a discount of "+(.1\*x\*100)+" and your total cost is "+(x\*100-(.1\*x\*100)));

}

else{

System.out.println("No discount");

}

}

}

**4) A school has following rules for grading system:**

**a. Below 25 - F**

**b. 25 to 45 - E**

**c. 45 to 50 - D**

**d. 50 to 60 - C**

**e. 60 to 80 - B**

**f. Above 80 - A**

**Ask user to enter marks and print the corresponding grade.**

*Code:*

import java.util.Scanner;

class eg3

{

public static void main(String[] args){

Scanner s = new Scanner(System.in);

System.out.println("Enter your marks");

int x = s.nextInt();

if(x<25){

System.out.println("F");

}

else if((x>=25)&&(x<45)){

System.out.println("E");

}

else if((x>=45)&&(x<50)){

System.out.println("D");

}

else if((x>=50)&&(x<60)){

System.out.println("C");

}

else if((x>=60)&&(x<80)){

System.out.println("B");

}

else if((x>=80)&&(x<=100)){

System.out.println("A");

}

else{

System.out.println("Not correct marks");

}

}

}