Practice Test 25/07/2018

1.Take values of length and breadth of a rectangle from user and check if it is square or not.

**package** com.org;

**import** java.util.Scanner;

**public** **class** IfSquare {

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

**int** lenght,breadth;

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

System.***out***.println("Enter length ");

lenght=sc.nextInt();

System.***out***.println("Enter breadth ");

breadth=sc.nextInt();

**if**(lenght==breadth)

{

System.***out***.println("it's a Square");

}

**else**

{

System.***out***.println("it's a Rectanguler");

}

}

}

2. 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.

**package** com.org;

**import** java.util.Scanner;

**public** **class** Quantity {

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

**int** quant,unit=100;

**double** totalCost,FinalCost,discount;

System.***out***.println("Enter quantity you want to purchased");

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

quant=sc.nextInt();

totalCost=quant\*unit;

**if**(totalCost>1000)

{

System.***out***.println("Congradulation you got 10% Discount on your purchased amount...");

discount= 0.1\*totalCost;

totalCost=totalCost-discount;

System.***out***.println("Total amount to paid with Discount is:"+totalCost);

}

**else**

{

System.***out***.println("Total amount to paid is:"+totalCost);

}

}

}

3. 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.

**package** com.org;

**import** java.util.Scanner;

**public** **class** GardingSystem {

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

**int** marks;

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

System.***out***.println("Enter marks you got:");

marks=sc.nextInt();

**if**(marks<25)

{

System.***out***.println("your grade is : F");

}

**else** **if**(marks>=25 && marks<45)

{

System.***out***.println("your grade is : E");

}

**else** **if**(marks>=45 && marks<50)

{

System.***out***.println("your grade is : D");

}

**else** **if**(marks>=50&& marks<60)

{

System.***out***.println("your grade is : C");

}

**else** **if**(marks>=60 && marks<80)

{

System.***out***.println("your grade is : B");

}

**else** **if**(marks>80&& marks==100)

{

System.***out***.println("your grade is : A");

}

**else**

{

System.***out***.println("you entered wrong input. please enter right onput");

}

}

}

4. A student will not be allowed to sit in exam if his/her attendence is less than 75%.  
Take following input from user  
Number of classes held  
Number of classes attended.  
And print  
percentage of class attended  
Is student is allowed to sit in exam or not.

**package** com.org;

**import** java.util.Scanner;

**public** **class** Attendance {

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

**double** Cattended,Cheld;

**double** percentage;

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

System.***out***.println("Enter number of classes attened:");

Cattended=sc.nextInt();

System.***out***.println("Enter number of classes helded:");

Cheld=sc.nextInt();

percentage =(Cattended/Cheld)\*100;

System.***out***.println(percentage);

**if**(percentage<75)

{

System.***out***.println("your attendance is below 75 so you are not allowed to attend exam");

}

**else**

{

System.***out***.println("you are eligible for exam");

}

}

}

5. Ask user to enter age, gender(M or F ), marital status ( Y or N ) and then using following rules print their place of service.  
if employee is female, then she will work only in urban areas.  
  
if employee is a male and age is in between 20 to 40 then he may work in anywhere  
  
if employee is male and age is in between 40 t0 60 then he will work in urban areas only.  
  
And any other input of age should print "ERROR".

**package** com.org;

**import** java.util.Scanner;

**public** **class** EmployeeDetails {

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

**int** age;

String gender;

String Ms;

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

System.***out***.println("Enter age of the employee:");

age=sc.nextInt();

System.***out***.println("Enter gender of employee:");

gender=sc.next();

System.***out***.println("enter maritalStatus of employee:");

Ms=sc.next();

**if**(gender.equalsIgnoreCase("female"))

{

System.***out***.println("She can work in urban areas");

}

**else** **if**((gender.equalsIgnoreCase("male"))&&age>=20&&age<40)

{

System.***out***.println("He can work anywhere");

}

**else** **if**((gender.equalsIgnoreCase("male"))&&age>=40&&age<60)

{

System.***out***.println("He will work in urban areas only...");

}

**else**

{

System.***out***.println("wrong input");

}

}

}

6. A 4 digit number is entered through keyboard. Write a program to print a new number with digits reversed as of orignal one. E.g.-

INPUT : 1234 OUTPUT : 4321

INPUT : 5982 OUTPUT : 2895

**package** com.org;

**import** java.util.Scanner;

**public** **class** Reversed {

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

**int** num,reminder,Result=0;

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

System.***out***.println("enter the 4 digit number:");

num=sc.nextInt();

**while**(num!=0)

{

reminder=num%10;

Result=(Result\*10)+reminder;

num=num/10;

}

System.***out***.println("ReverseNumber is:"+Result);

}

}

7.   
Take 10 integers from keyboard using loop and print their average value on the screen.

**package** com.org;

**import** java.util.Scanner;

**public** **class** AvrageValue {

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

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

**double** avrage,sum=0;

**int** a[]=**new** **int**[10];

System.***out***.println("enter 10 numbers");

**for** (**int** i = 0; i < a.length; i++) {

a[i]=sc.nextInt();

sum=sum+a[i];

}

System.***out***.println("addition of 10 numbers:"+sum);

avrage=sum/10;

System.***out***.println("avrage is:"+avrage);

}

}

8. Write a Java program to calculate factorial of a number.

**package** com.org;

**import** java.util.Scanner;

**public** **class** FactorialOfnumber {

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

**int** num ,fact=1;

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

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

num=sc.nextInt();

**for** (**int** i = 1; i<=num; i++) {

fact=fact\*i;

}

System.***out***.println("factorial of number is:"+fact);

}

}

9. Take integer inputs from user until he/she presses q ( Ask to press q to quit after every integer input ). Print average and product of all numbers.

package practice\_questions;

import java.util.Scanner;

public class EnterQ {

public static void main(String[] args) {

int ak,cnt=0,sum=0,product=1,avg;

String ch;

Scanner sc = new Scanner(System.in);

do

{

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

ak=sc.nextInt();

cnt++;

sum=sum+ak;

product=product\*ak;

System.out.println("Enter Q to quite");

ch=sc.next();

}while(!ch.equalsIgnoreCase("q"));

avg=sum/cnt;

System.out.println("Avrage is : "+avg);

System.out.println("product is : "+product);

}

}

10.Write a Java program to convert seconds to hour, minute and seconds.    
*Sample Output:*

Input seconds: 86399

23:59:59

package com.org;

import java.util.Scanner;

public class SecondsQ {

public static void main(String[] args) {

int sec;

Scanner sc = new Scanner(System.in);

System.out.println("Enter Seconds from user:");

sec=sc.nextInt();

int p1 = sec % 60;

int p2 = sec / 60;

int p3 = p2 % 60;

p2 = p2 / 60;

System.out.println("output:"+p2+":"+p3+":"+p1+":");

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

}

}