B.Safreen

19cse023

1.Write a java program to search a number in a given number

package lab1;

import java.util.Scanner;

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\* @author velmurugan

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public class search {

public static void main(String[] arg){

Scanner obj=new Scanner(System.in);

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

int n=obj.nextInt();

System.out.println("Enter the digit:");

int m=obj.nextInt();

int position=0;

while(n>0)

{

if(n%10==m)

System.out.println(position);

++ position;

n/=10;

}

}

2.Write a java program to find the distance travelled by the light in tha specified number of days

package lab1;

import java.util.Scanner;

/\*\*

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\* @author velmurugan

\*/

public class Lightdistance {

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

System.out.println("Enter no of days:");

float days=obj.nextFloat();

float distance;

distance= (float) (18.6\*1000000\*24\*60\*60\*days);

System.out.println("Distance travelled by the light is:"+distance+"trillion metres");

}

}

3.Write a java program to.calculate revenue from the sale based on the unit price and quantity of the product input by the user.

The discount rate is 10% for the quantity purchased between 100 and 120 units, and 15% for the quantity purchased greater than 120 units. If the quantity purchased is less than 100 units, the discount rate is 0%. See the example output as shown below:

Enter unit price: 25

Enter quantity: 110

The revenue from sale: 2475.0

After discount: 275.0(10.0%)

package lab1;

import java.util.Scanner;

/\*\*

\*

\* @author velmurugan

\*/

public class revenue {

public static void main(String[] args){

double rate=0;

double amount=0;

Scanner obj=new Scanner(System.in);

System.out.println("Enter the unit price:");

int n=obj.nextInt();

System.out.println("Enter the quantity of a product:");

double q=obj.nextDouble();

double revenue=0.0;

if((q>=100)&&(q<=120))

{

rate=10/100;

amount=0.0;

revenue=n\*q;

amount=revenue\*0.1;

revenue=revenue-amount;

}

else

{

rate=15/100;

revenue=n\*q;

amount=revenue\*rate;

revenue=revenue-amount;

}

System.out.println("The revenue from sale:"+revenue);

System.out.println("After discount:"+(n\*q));

}

}

}

4.Write a program to find the sum of all integers greater than 100 and less than 200 that are divisible by 8

package lab1;

import java.util.Scanner;

/\*\*

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\* @author velmurugan

\*/

public class number {

private static int i;

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

int r=0;

for(i=101;i<200;i++)

{

if(i%8==0)

r=r+i;

}

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

}

}

5.Write a program to check whether the array contains duplicate elements

package lab1;

import java.util.Scanner;

/\*\*

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\* @author velmurugan

\*/

public class duplicateelements {

private static int i;

private static int j;

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

System.out.println("Enter the no of terms:");

int n=obj.nextInt();

System.out.println("Enter the terms");

int m[]=new int[n];

for(i=0;i<n;i++)

{

m[i]=obj.nextInt();

}

for(i=0;i<n-1;i++)

for(j=i+1;j<n;j++)

{

if(m[i]==m[j])

System.out.println("Duplicate elements found");

else

System.out.println("Duplicate elements not found");

}

}

}

}