Java Assignment

1. Armstrong number

import java.util.\*;

public class Armstrong {

public static int arm(int n)

{

int k = n, sum=0;

while(k!=0)

{

int rem = k%10;

sum += Math.pow(rem, 3);

k /=10;

}

return sum;

}

public static void main(String[] args) {

// TODO Auto-generated method stub

int num, result;

Scanner in = new Scanner(System.in);

System.out.println("Number:");

num = in.nextInt();

result = arm(num);

if (result == num)

System.out.println(num+" is an armstrong number");

else

System.out.println(num+" not an armstrong number");

}

}

1. Finding Armstrong numbers between 100 and 999

public class Armrange {

public static void main(String[] args)

{

int num1=100, num2=999, sum=0,k,rem;

for(int i=num1; i<=num2; i++)

{

k = i;

while(k!=0)

{

rem = k%10;

sum += Math.pow(rem,3);

k /=10;

}

if(sum == i)

System.out.println(sum+" is an armstrong number");

sum=0;

}

}

}

1. Finding Simple Interest and Compound Interest

import java.util.\*;

public class Intrest {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner in = new Scanner(System.in);

double p,t,r;

p = in.nextDouble();

t = in.nextDouble();

r = in.nextDouble();

double SI = (p\*t\*r)/100;

//double CI = ;

System.out.println("SI="+ SI);

}

}

1. Finding Grades

import java.util.\*;

public class Grades {

public static void main(String[] args)

{

Scanner in = new Scanner(System.in);

int s1, s2, s3, tot;

s1 = in.nextInt();

s2 = in.nextInt();

s3 = in.nextInt();

tot = s1+s2+s3;

if(s1>60 && s2>60 && s3>60)

{

System.out.println("passed");

}

else if(((s1>60)&&(s2>60))||((s2>60)&&(s3>60))||((s3>60)&&(s1>60)))

{

System.out.println("Promoted");

}

else

{

System.out.println("failed");

}

}

}

1. Array Searching

import java.util.\*;

public class SearchArray {

public static void main(String[] args)

{

int arr[] = {5,12,14,6,78,19,1,23,26,35,37,7,52,86,47};

Scanner in = new Scanner(System.in);

int l = arr.length;

int num = in.nextInt();

for(int i=0;i<l;i++)

{

if(arr[i]==num)

{

System.out.println("The element is present");

}

else

{

System.out.println("The element is not present");

}

break;

}

}

}

1. Sortting array using bubble sort

public class Sort {

public static void main(String[] args) {

// TODO Auto-generated method stub

int arr[] = {5,12,14,6,78,19,1,23,26,35,37,7,52,86,47};

int l = arr.length;

for(int i = 0; i<l-1;i++)

{

for(int j=0; j<l-i-1; j++)

{

if(arr[j]>arr[j+1])

{

int temp = arr[j+1];

arr[j+1] = arr[j];

arr[j] = temp;

}

}

}

System.out.println("The Sorted array is:");

for(int i =0; i<l-1;i++)

{

System.out.print(arr[i]+" ");

}

}

}

1. Income tax program

import java.util.\*;

public class Incometax {

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

double CTC,k;

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

CTC = sc.nextDouble();

if(CTC <= 180000)

{

System.out.println("No tax Payable");

}

else if((CTC>=180001)&&(CTC <= 300000))

{

k = (0.1)\*CTC;

System.out.println(k);

}

else if((CTC>=300001)&& (CTC <= 500000))

{

k = (0.2)\*CTC;

System.out.println(k);

}

else if((CTC>=500001)&& (CTC <= 1000000))

{

k = (0.3)\*CTC;

System.out.println(k);

}

}

}

1. CUI

import java.util.\*;

public class Cui {

public static void main(String[] args) {

// TODO Auto-generated method stub

int c = 0;

String user = "sravya"; String password = "sravya";

Scanner sc = new Scanner(System.in);

while(c!=3)

{

String name = sc.nextLine();

String pwd = sc.nextLine();

if((name.equals(user))&&(pwd.equals(password)))

{

System.out.println("Welcome "+name);

break;

}

else

{

System.out.println("The Credentials are Wrong please Enter Again");

}

c++;

}

}

}