Kabul University

The Faculty of Computer Science

Department of Software Engineering

***Assignment of Programming***

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1. ***Perimeter of a circle***

package preimeterofcircle;

import java.util.Scanner;

public class Preimeterofcircle {

public static void main(String[] args) {

double radius,perimeter;

Scanner input = new Scanner(System.in);

System.out.println("Enter the radius of a circle");

radius = input.nextDouble();

input.close();

perimeter = 2 \* 3.14159 \* radius;

System.out.println("Primeter of the circle is" +perimeter);

run:

Enter the radius of a circle

13

Primeter of the circle is81.68133999999999

1. **Area of Triangle**

package areaoftriangle;

import java.util.Scanner;

public class Areaoftriangle {

public static void main(String[] args) {

double base,hieght,area;

Scanner input = new Scanner(System .in);

System.out.println("Enter the base of a triangle");

System.out.println("Enter the hieght of a triangle");

base = input.nextDouble();

hieght = input.nextDouble();

input.close();

area = 0.5\* base \* hieght;

System.out.println("Area of the Triangle is"+area);

run:

Enter the base of a triangle

Enter the hieght of a triangle

12

15

Area of the Triangle is 90.0

1. ***Area of a rectangle***

package areaofrectangle;

import java.util.Scanner;

public class Areaofrectangle {

public static void main(String[] args) {

double lenght,width,area;

Scanner input = new Scanner(System .in);

System.out.println("Enter the lenght of a rectangle");

System.out.println("Enter the width of a rectangle");

lenght = input.nextDouble();

width = input.nextDouble();

input.close();

area = lenght \* width;

System.out.println("The are of the rectangle is"+area);

run:

Enter the lenght of a rectangle

Enter the width of a rectangle

12

17

The are of the rectangle is204.0

1. **Perimeter of a rectangle**

package perimeterofrectangle;

import java.util.Scanner;

public class Perimeterofrectangle {

public static void main(String[] args) {

double lenght,width,perimeter;

Scanner input = new Scanner(System .in);

System.out.println("Enter the lenght of rectangle");

System.out.println("Enter the width of rectangle");

lenght = input.nextDouble();

width = input.nextDouble();

input.close();

perimeter = 2 \* (lenght + width);

System.out.println("The perimeter of rectangle is"+perimeter);

run:

Enter the lenght of rectangle

Enter the width of rectangle

12

45

The perimeter of rectangle is114.0

1. ***Volume of a cylinder***

package volumeofcylinder;

import java.util.Scanner;

public class Volumeofcylinder {

public static void main(String[] args) {

double hieght,radius,volume;

Scanner input = new Scanner(System .in);

System.out.println("Enter the hieght of volume");

System.out.println("Enter the radius of volume");

hieght = input.nextDouble();

radius = input.nextDouble();

input.close();

volume = 3.14159 \* radius \* radius \* hieght;

System.out.println("The volume of cylinder is"+volume);

run:

Enter the hieght of volume

Enter the radius of volume

15

16

The volume of cylinder is12063.7056

1. ***Area of a Parallelogram***

package areaofparallelogram;

import java.util.Scanner;

public class Areaofparallelogram {

public static void main(String[] args) {

double base,height,area;

Scanner input = new Scanner(System .in);

System.out.println("Enter the base of parallelogram");

System.out.println("Enter the height of parallelogram");

base = input.nextDouble();

height = input.nextDouble();

input.close();

area = base \* height;

System.out.println("The are of parallelogram is"+area);

run:

Enter the base of parallelogram

Enter the height of parallelogram

45

90

The are of parallelogram is4050.0

1. ***Calculate the Hypotenuse of a Right-Angled Triangle***

ackage calculatingthehypotenuseofatriangle;

import java.util.Scanner;

public class CalculatingtheHypotenuseofaTriangle {

public static void main(String[] args) {

double a,b,hypotenuse;

Scanner input = new Scanner(System .in);

System.out.println("Enter the value of Shorter a");

System.out.println("Enter the value of shorter b");

a = input.nextDouble();

b = input.nextDouble();

input.close();

hypotenuse = a^2 + b^2;

missssss…………..

1. ***Convert temperature from Celsius to Fahrenheit***

package celsuistofahernheit;

import java.util.Scanner;

public class Celsuistofahernheit {

public static void main(String[] args) {

double celsuis,fahrenheit;

Scanner input = new Scanner(System .in);

System.out.println("Enter celsuis degree");

celsuis = input.nextDouble();

input.close( );

fahrenheit = celsuis \* 9/5 + 32;

System.out.println("The fahrenheit degree is"+fahrenheit);

run:

Enter celsuis degree

14

The fahrenheit degree is57.2

1. ***Convert temperature from Fahrenheit to Celsius***

package ftoc;

import java.util.Scanner;

public class FtoC {

public static void main(String[] args) {

double fahernheit,celsuis;

Scanner input = new Scanner(System .in);

System.out.println("Enter the fahernheit degree");

fahernheit = input.nextDouble();

input.close();

celsuis = (fahernheit - 32) \* 5/9;

System.out.println("The celsuis degree is"+celsuis);

run:

Enter the fahernheit degree

1234

The celsuis degree is667.7777777777778

1. ***Calculate simple interest***

package calculatesimpleinterest;

import java.util.Scanner;

public class Calculatesimpleinterest {

public static void main(String[] args) {

double principal,rate,time,simpleinterest;

Scanner input = new Scanner(System .in);

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

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

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

principal = input.nextDouble();

rate = input.nextDouble();

time = input.nextDouble();

input.close();

simpleinterest = (principal \* rate \* time)/100;

System.out.println("The simple interest is"+simpleinterest);

Enter the principal

Enter the rate

Enter the time

12

12

56

The simple interest is80.64

1. ***Calculating compound interest***

package calculatingcompundinterest;

import java.util.Scanner;

public class Calculatingcompundinterest {

public static void main(String[] args) {

double p,r,n,t,ci;

Scanner input = new Scanner(System .in);

System.out.println("Enter the value of p");

System.out.println("Enter the value of r");

System.out.println("Enter the value of n");

System.out.println("Enter the value of t");

p = input.nextDouble();

r = input.nextDouble();

n = input.nextDouble();

t = input.nextDouble();

input.close();

ci = p \* 1+r/n \* n \* t;

System.out.println("The value compound interest is"+ci);

run:

Enter the value of p

Enter the value of r

Enter the value of n

Enter the value of t

12

45

67

90

The value compound interest is4062.0

1. ***Calculating the surface area of a sphere***

package areaofsphere2;

import java.util.Scanner;

public class Areaofsphere2 {

public static void main(String[] args) {

double radius,area;

Scanner input = new Scanner(System .in);

System.out.println("Enter the radius of sphere");

radius = input.nextDouble();

input.close();

area = 4 \* 3.14159 \* radius \* radius;

System.out.println("The area of sphere is"+area);

run:

Enter the radius of sphere

8789

The area of sphere is9.7070759163356E8

1. ***Calculating the volume of sphere***

package volumeofsphere;

import java.util.Scanner;

public class Volumeofsphere {

public static void main(String[] args) {

double radius,volume;

Scanner input = new Scanner(System .in);

System.out.println("Enter the value of radius");

radius = input.nextDouble();

input.close();

volume = 4/3 \* 3.14159 \* radius \* radius \* radius;

System.out.println("The volume of sphere is"+volume);

run:

Enter the value of radius

12

The volume of sphere is5428.667519999999

1. ***Calculate the area of trapezoid\***

package areaoftrapezoid;

import java.util.Scanner;

public class Areaoftrapezoid {

static void main(String[] args) {

double lenght,height,area;

Scanner input = new Scanner(System .in);

System.out.println("Enter the value of lenght");

System.out.println("Enter the value of heigth");

lenght = input.nextDouble();

height = input.nextDouble();

input.close();

area = 0.5 \* lenght \* height;

System.out.println("The area of trapezoid is"+area);

run:

Enter the value of length

Enter the value of height

12

13

The area of trapezoid is 78.0

1. ***Calculate the perimeter of triangle***

package perimeteroftriangle;

import java.util.Scanner;

public class Perimeteroftriangle {

public static void main(String[] args) {

double lenghta,lenghtb,lenghtc,perimeter;

Scanner input = new Scanner(System .in);

System.out.println("Enter the value of lenghta");

System.out.println("Enter the value of lenghtb");

System.out.println("Enter the value of lenghtc");

lenghta = input.nextDouble();

lenghtb = input.nextDouble();

lenghtc = input.nextDouble();

input.close();

perimeter = lenghta + lenghtb + lenghtc;

System.out.println("The perimeter of triangle is"+perimeter);

run:

Enter the value of lenghta

Enter the value of lenghtb

Enter the value of lenghtc

12

123123

123

The perimeter of triangle is123258.0

1. ***Solve a quadratic equation***

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