# **Assignment 1:**

**Q1) Calculate Area and Circumference of circle.**

package assignment\_1;

// Calculate Area and Circumference of circle.

// Area of Circle = pi\*radius\*radius

// Circumference of circle = 2\*pi\*radius

import java.util.Scanner;

public class AreaAndCircum {

public static void main(String []args) {

Scanner sc = new Scanner(System.in);

double radius,area,circumference;

System.out.println("Enter Radius of circle: ");

radius = sc.nextDouble();

area = Math.PI\*radius\*radius;

circumference = 2\*Math.PI\*radius;

System.out.println("Area of circle: "+ area);

System.out.println("Circumference od circle: "+ circumference);

}

}

**Q2) Calculate area of Rectangle..**

**package** assignment\_1;

**import** java.util.Scanner;

**public** **class** AreaOfRectangle {

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

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

System.***out***.println("Enter Width: ");

**float** width = sc.nextFloat();

System.***out***.println("Enter height: ");

**float** height = sc.nextFloat();

**float** area = width\*height;

System.***out***.println("Area of Rectangle is: "+area):

}

}

**Q3) write a java program to find the Ascii value of character.**

**package** assignment\_1;

// write a java program to find the Ascii value of character.

**import** java.util.Scanner;

**public** **class** AsciiValOfChar {

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

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

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

String input = sc.nextLine();

**char** ch = input.charAt(0);

**int** asciiValue = (**int**)ch;

System.***out***.println("Ascii value of " +ch+ " is "+ asciiValue);

//

// char ch = 'a';

// int ascii = ch;

//

// int castAscii = (int) ch;

//

// System.out.println("Ascii value of " +ch+ " is "+ ascii);

// System.out.println("Ascii value of " +ch+ " is "+castAscii);

}

}

**Q4) Calculate compound interest............**

**package** assignment\_1;

**import** java.util.Scanner;

**public** **class** CompInt {

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

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

System.***out***.println("Enter principal ammount: ");

**double** principal = sc.nextDouble();

System.***out***.println("Enter interest rate: ");

**double** rate = sc.nextDouble();

System.***out***.println("Enter time peroid: ");

**double** time = sc.nextDouble();

System.***out***.print("Enter the number of times the interest is compounded per year: ");

**int** n = sc.nextInt();

**double** amount = *CompInt*(principal, rate, time, n);

System.***out***.println("The compound interest after " + time + " years is: " + amount);

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

}

**private** **static** **double** CompInt(**double** principal, **double** rate, **double** time, **int** n) {

**double** amount = principal \* Math.*pow*(1 + (rate / n), n \* time);

**return** amount;

}

}

**Q5) Swapping of two numbers.**

**package** assignment\_1;

**import** java.util.Scanner;

**public** **class** Swap {

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

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

System.***out***.println("Enter two numbers:");

**int** num1 = sc.nextInt();

**int** num2 = sc.nextInt();

System.***out***.println("Before Swapping: ");

System.***out***.println(num1);

System.***out***.println(num2);

**int** temp = num1;

num1 = num2;

num2 = temp;

System.***out***.println("After Swapping: ");

System.***out***.println(num1);

System.***out***.println(num2);

}

}