

MD. NAEEM UDDIN

ID: C223030

Problem No: 01

```
Scanner input = new Scanner(System.in);
System.out.print("Enter the length in Inch:
");int inch = input.nextInt();
double centimeter = (float)inch*2.54;
System.out.println("Length in centimeter: " +
centimeter);
```

Problem No: 02

```
Scanner input = new Scanner(System.in);
System.out.print("Enter Temperature in degree Fahrenheit:
");double fer = input.nextDouble();
double cel = ((5.0/9)*(fer-32));
System.out.println("Temperature in Celsius: " +
cel);
```

Problem No: 03

```
Scanner input = new Scanner(System.in);
System.out.print("Enter the radius of the circle:
");double radius = input.nextDouble();
double pi = 3.1416;
double area = pi*radius*radius;
double circumference =
2*pi*radius;
```

```
System.out.println("Area of the Circle: " + area);
System.out.println("Circumference of the Circle: "
+circumference);
```

Problem No: 04

```
Scanner input = new Scanner(System.in);
System.out.print("Enter the value of X:
");int x = input.nextInt();
System.out.print("Enter the value of Y:
");int y = input.nextInt();
System.out.print("Enter the value of Z:
");int z = input.nextInt();
int totalMarks = x+y+z;
double averageMark = totalMarks/3.0;
System.out.println("Total Marks: " + totalMarks);
System.out.println("Average Marks: " +
averageMark);
```

Problem No: 05

```
Scanner input = new Scanner(System.in);
System.out.print("Enter the value of A:
");int a = input.nextInt();
System.out.print("Enter the value of B:
");int b = input.nextInt();
System.out.print("Enter the value of C:
");int c = input.nextInt();
double s = (a+b+c)/2.0;
double area = Math.sqrt(s*(s-a)*(s-b)*(s-c));
System.out.println("Area of the Triangle: " +
area);
```

Problem No: 06

```
Scanner input = new Scanner(System.in);
System.out.print("Enter the value of X:
");double x = input.nextDouble();
double p = (x-1)/x ;
double y = p + (p*p)/2 + (p*p*p)/3 +
(p*p*p*p)/4;System.out.println("Answer: " + y);
```

Problem No: 07

```
Scanner input = new Scanner(System.in);
System.out.print("Enter the value of a:
");double a = input.nextDouble();
System.out.print("Enter the value of b:
");double b = input.nextDouble();
System.out.print("Enter the value of c:
");double c = input.nextDouble();
double d = (b*b)-
(4*a*c);if(d == 0){
    double x = -b/(2*a);
    System.out.println("Value of x: " + x);
}

else if(d > 0){
    double x1 = (-b + (Math.sqrt(d)/(2*a)));
    double x2 = (-b - (Math.sqrt(d)/(2*a)));
    System.out.println("Value of x: " + x1 + ", " +
x2);
}
else{
    System.out.println("No Real Output");
}
```