Assignmet 4

- Write a program which takes the values of length and breadth from user and check if it is a square or
Not.

```
import java.util.Scanner;

public class Main{
    public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    int length;
    System.out.print("Enter a length : ");
    length = sc.nextInt();
    int breadth;
    System.out.print("Enter a breath : ");
    breadth = sc.nextInt();
    if(length==breadth){
        System.out.println("It is square  ");
    }else{
        System.out.println("It is not square ");
    }


    }
}
```

Write a program to print absolute value of a number entered by the user.

```
import java.util.Scanner;

public class Absolute {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int num ;
        System.out.println("Enter the Number : ");
        num = sc.nextInt();
        if(num < 0){
            num = num*-1;
```

```
        }
        System.out.println("The Absolute Number is "+num);

    }
}
```

Write a program to take input from user for Cost Price (C.P.) and Selling Price(S.P.) and calculate Profit
or Loss.

```
import java.util.*;
public class cost{
public static void main(String[] args) {
Scanner sc=new Scanner(System.in);
int cp;
int sp;
System.out.print("Enter the Cost Price : ");
cp=sc.nextInt();
System.out.print("Enter the Selling Price : ");
sp=sc.nextInt();
int amt;
if(cp>sp)
{
amt=cp-sp;
System.out.print("The loss is : "+amt);
}else if(cp<sp)
{
amt=sp-cp;
System.out.print("The profit is : "+amt);
}else{
System.out.print("No Profit No Loss");
}
}
}
```

Write a program to print positive number entered by the user, if user enters a negative number, it is
skipped.

```
import java.util.*;
public class  skipped{
public static void main(String[] args) {
```

```
Scanner sc=new Scanner(System.in);
int x;
System.out.print("Enter the Number : ");
x=sc.nextInt();
if(x>=0)
{
System.out.print("You entered a positive number");
}else{
System.out.print("You number is negative and is skipped");
}
}
}
```

- Create a calculator using switch statement to perform addition, subtraction, multiplication and division.

```
import java.util.*;
class Main {
public static void main(String[] args) {
char op;
Double num1;
Double num2;
Double ans;
Scanner sc = new Scanner(System.in);
System.out.print("Enter an operator: (+, -, *, or /)");
op = sc.next().charAt(0);
System.out.print("Enter first number : ");
num1 = sc.nextDouble();
System.out.print("Enter second number : ");
num2 = sc.nextDouble();
switch (op) {
case '+':
ans = num1 + num2;
System.out.println(num1 + " + " + num2 + " = " + ans);
break;
case '-':
ans = num1 - num2;
System.out.println(num1 + " - " + num2 + " = " + ans);
break;
case '*':
```

```
ans = num1 * num2;
System.out.println(num1 + " * " + num2 + " = " + ans);
break;
case '/':
ans = num1 / num2;
System.out.println(num1 + " / " + num2 + " = " + ans);
break;
default:
System.out.println("Error! The operator is not correct");
break;
}
}
}
```

- Write a program to calculate marks to grades . Follow the conversion rule as given below :

```
import java.util.Scanner;
public class grade {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int num;
        System.out.print("Enter the marks: ");
        num = sc.nextInt();
        if(num>=90){
            System.out.println("A+");
        }else if(num>=80){
            System.out.println("A");
        }else if(num>=70){
            System.out.println("B+");
        }else if(num>=60){
            System.out.println("B");
        }else if(num>=50){
            System.out.println("C+");
        }else if(num>=40){
            System.out.println("D");
        }else if(num>=30){
            System.out.println("E");
        }else if(num<=30){
            System.out.println("F");
```

```
        }else{
            System.out.println("Invalid Number");
        }


    }
}
```