

Calculator:

```
import java.util.Scanner;

public class sample
{
    public static void main (String[]args)
    {
        System.out.println("-----calculator-----");

        System.out.println("list of operations");

        System.out.println("addition");

        System.out.println("subtraction");

        System.out.println("multiplication");

        System.out.println("division");

        while (true){

            char operator;

            int num1,num2,result;

            Scanner input=new Scanner(System.in);

            System.out.println("enter the operator:+,-,*,/ ");

            operator = input.next().charAt(0);

            switch(operator){

                case '+':

                    System.out.println("enter num1");

                    num1=input.nextInt();

                    System.out.println("enter num2");

                    num2=input.nextInt();
```

```
int result1=num1+num2;

System.out.println(num1 + "+" + num2 +"=" +result1);

break;

case '-':

System.out.println("enter num1");

num1=input.nextInt();

System.out.println("enter num2");

num2=input.nextInt();

int result2=num1-num2;

System.out.println(num1 + "-" + num2 +"=" +result2);

break;

case '*':

System.out.println("enter num1");

num1=input.nextInt();

System.out.println("enter num2");

num2=input.nextInt();

int result3=num1*num2;

System.out.println(num1 + "*" + num2 +"=" +result3);

break;

case '/':

System.out.println("enter num1");

num1=input.nextInt();

System.out.println("enter num2");

num2=input.nextInt();

int result4=num1/num2;
```

```
System.out.println(num1 + "/" + num2 + "=" + result4);
```

```
break;
```

```
default:
```

```
System.out.println("Invalid operator!");
```

```
break;
```

```
}
```

```
}
```

```
}
```

```
}
```

```
-----calculator-----
list of operations
addition
subtraction
multiplication
division
enter the operator:+,-,*,/
+
enter num1
4
enter num2
4
4+4=8
enter the operator:+,-,*,/
-
enter num1
5
enter num2
3
5-3=2
enter the operator:+,-,*,/
*
enter num1
3
enter num2
5
3*5=15
enter the operator:+,-,*,/
/
enter num1
4
enter num2
2
4/2=2
```

```
import java.util.Scanner;

public class sample {

    public static void
    guessingNumberGame()

    {

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

```

int number = 1 + (int)(100* Math.random());

int K = 5;

int i, guess;

System.out.println("A number is chosen"+ " between 1 to 100."+ "Guess the number+ " within 5 trials.");

for (i = 0; i < K; i++) {

System.out.println("Guess the number:");


guess = sc.nextInt();

if (number == guess) {

System.out.println("Congratulations!+ " You guessed the number.");

break;

}

else if (number > guess&& i != K - 1) {

System.out.println("The number is "+ "greater than " + guess);}

else if (number < guess&& i != K - 1) {

System.out.println("The number is"+ " less than " + guess)

;}

}

if (i == K) {

System.out.println("You have exhausted"+ " K trials.");

System.out.println("The number was " + number);

}

}

public static voidmain(String arg[])

```

```
{guessingNumberGame();  
}  
}
```

```
C:\Users\acer\Desktop>java sample  
A number is chosen between 1 to 100.Guess the number within 5 trials.  
Guess the number:  
56  
The number is less than 56  
Guess the number:  
32  
The number is greater than 32  
Guess the number:  
42  
The number is greater than 42  
Guess the number:  
48  
The number is less than 48  
Guess the number:  
45  
You have exhausted K trials.  
The number was 47
```