Write a program

example: Find max number

```
public class Main {
   public static void main(String[] args) {
       int a = randomNumberZeroToHundred();
       int b = randomNumberZeroToHundred();
       System.out.printf("a=%d, b=%d", a, b);
       // 「a は bより大きいですか」を比較する
       // a は bより大きいの場合
       if (a > b) {
           System.out.printf("The maximum number is %d", a);
       // a は bより大きいではない場合
       else {
           System.out.printf("The maximum number is %d", b);
       }
   }
   public static int randomNumberZeroToHundred(){
       return (int) (Math.random() * 101);
}
```

1) Find maximum number

Project Name: FindMaxOfThree

```
public class Main {
   public static void main(String[] args) {
      int a = randomNumberZeroToHundred();
      int b = randomNumberZeroToHundred();
      int c = randomNumberZeroToHundred();

      System.out.printf("a=%d, b=%d, c=%d", a, b, c);

      // Write down your logic
   }

   public static int randomNumberZeroToHundred(){
      return (int) (Math.random() * 101);
   }
}
```

2) Find minimum number

Project Name: FindMinOfThree

```
public class Main {
   public static void main(String[] args) {
      int a = randomNumberZeroToHundred();
      int b = randomNumberZeroToHundred();
      int c = randomNumberZeroToHundred();

      System.out.printf("a=%d, b=%d, c=%d", a, b, c);

      // Write down your logic
   }

   public static int randomNumberZeroToHundred(){
      return (int) (Math.random() * 101);
   }
}
```

example: Guess odd number or even number

Project Name: CheckOddOrEven

```
public class Main {
   public static void main(String[] args) {
     int a = randomNumberOneToTen();

     System.out.printf("a=%d", a);

     if(a % 2 == 0) {
          System.out.printf("%d is even number.", a);
     }else{
          System.out.printf("%d is odd number.", a);
     }
}

public static int randomNumberOneToTen(){
     return (int) (Math.random() * 10) + 1;
}
```

3) Count odd number

Project Name: CountOddNumber

```
public class Main {
   public static void main(String[] args) {
        int a = randomNumberOneToTen();
        int b = randomNumberOneToTen();
        int c = randomNumberOneToTen();
       System.out.printf("a=%d, b=%d, c=%d", a, b, c);
        int count = 0;
       // Write a program that find the odd number
        // And incrementing one to [variable : count]
       // ① check, is [a] an even/odd
       // if odd, increase count to plus 1
       // ② check, is [b] an even/odd
        // if odd, increase count to plus 1
       // ③ check, is [c] an even/odd
       // if odd, increase count to plus 1
       // finally output the result[total count]
   }
   public static int randomNumberOneToTen(){
        return (int) (Math.random() * 10) + 1;
   }
}
```

4) Makes a comparison between two numbers (they are equal or greater than or less than.)

Project Name: CompareTwoNums

```
public class Main {
   public static void main(String[] args) {
      int numOne = randomNumberOneToTen();
      int numTwo = randomNumberOneToTen();

      System.out.printf("numOne=%d, numTwo=%d", numOne, numTwo);

      // make a comparison of two numbers [numOne, numOne]
      // print out equal, or greater than, or less than
   }

   public static int randomNumberOneToTen(){
      return (int) (Math.random() * 10) + 1;
   }
}
```

```
}
```

5) Write down below program.

Project Name: WholsElder

```
public class Main {
   public static void main(String[] args) {
     int boyAge = randomNumberZeroToHundred();
     int girlAge = randomNumberZeroToHundred();

     System.out.printf("boyAge=%d, girlAge=%d", boyAge, girlAge);

     // makes below conditions
     // 1) If boy age is greater than girl age
     // Print msg [ お兄様 ]

     // 2) If girl age is greater than boy age
     // Print msg [ お姉様 ]
}

public static int randomNumberZeroToHundred(){
     return (int) (Math.random() * 101);
}
}
```

6) Write down below program.

Project Name: TripleSevenPachinko

```
public class Main {
   public static void main(String[] args) {
      int numOne = randomNumberZeroToNine();
      int numTwo = randomNumberZeroToNine();
      int numThree = randomNumberZeroToNine();

      System.out.printf("numOne=%d, numTwo=%d, numThree=%d",
      numOne,numTwo,numThree);

      // makes below condition
      // 1) If all numbers [numOne, numTwo, numThree] are equal and 7
      // Print msg [Super Lucky]

      // 2) Else If all numbers are equal
      // Print msg [Lucky]
```

```
// 3) Else
// Print msg [Unlucky]
}

public static int randomNumberZeroToNine(){
    return (int) (Math.random() * 10);
}
}
```

7) Write down below program.

Project Name: ShowMonthName

```
public class Main {
   public static void main(String[] args) {
     int month = randomNumberOneToTwelve();

     System.out.printf("month=%d", month);

     // makes conditions
     // [month] represents months of year
     // if month is 1, print msg [January]
     // if 2, print msg [February]
     // .....

     // HINT: Use if condition or switch condition
}

public static int randomNumberOneToTwelve(){
     return (int) (Math.random() * 12) + 1;
}
}
```

8) Write down below program.

Project Name: PrintOneChar

```
public class Main {
  public static void main(String[] args) {
    String str = "The quick brown fox jumps over the lazy dog.";
    int pos = randomIndex();

    System.out.printf("pos=%d", pos);

    // Print out the character from [String:str] by using [int:pos]

    // Before printing out, thinks below conditions
```

```
// 1) if [int:pos] exceeds the [String:str] last pos
    // Print msg [invalid pos]
    // 2) if not
    // Print the [character]
}

public static int randomIndex() {
    return (int) (Math.random() * 100);
}
```

9) Write down below program.

Project Name: CutSubString

```
public class Main {
    public static void main(String[] args) {
        String str = "The quick brown fox jumps over the lazy dog.";
        int startPos = randomIndex(str.length());
       int endPos = randomIndex(str.length());
       System.out.printf("startPos=%d, endPos=%d", startPos, endPos);
       // Cut & Print out the character from [String:str] by using [int:startPos]
& [int:endPos]
       // Before printing out, thinks below conditions
        // 1) if [int:startPos] is greater than [int:endPos]
       // Print msg [end-position must be greater than start-position]
       // 2) if [int:startPos] or [int:endPos] exceeds the [String:str] last pos
       // Print msg [Position exceeds the given string's position]
       // 3) if not
       // Print the [substring]
    }
    public static int randomIndex(int len) {
        return (int) (Math.random() * len * 2);
    }
}
```