Revision session

→ template

terminal / output

```
class Main {    → curly braces
    public static void main(String[] args) {
        System.out.println( );
                            └→ parenthesis
    }
}
```

Note:-

( ) → parenthesis

{ } → curly braces

[ ] → square braces

→ libraries with many inbuilt functionalities

```
{  import java.io.*;
   import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN.
        System.out.println("Hello World. I am here.");
    }
}
```

```java
public class Solution {

    public static void main(String[] args) {
        System.out.println("Hello");
        System.out.println("World.");
        System.out.println("I");
        System.out.println("am");
        System.out.println("here.");
    }
}
```

```java
public class Solution {

    public static void main(String[] args) {
        System.out.println("Hello\nWorld.\nI\nam\nhere.");
    }
}
```

⟹ **Input from user**

↳ **declare input class**

Imp

Syntax

$\underline{Scanner} \quad \underline{scn} = \text{(new)} \; Scanner(System.in);$

class   variable

// used to take input from user

↳ how to take integer input

$\underline{int \; x} = \underline{scn.nextInt()};$

↓ storing the input into variable

↳ taking integer i/p from user

Que)
Sum and difference of x and y

```java
public class Solution {

1)   public static void main(String[] args) {
2)       Scanner scn = new Scanner(System.in);
3)       int x = scn.nextInt();
4)       int y = scn.nextInt();

5)       System.out.println(x + y);
6)       System.out.println(x - y);
     }
}
```

⇒ Increment & decrement operator

	pre.	post
Increment	++a	a++
decrement	--a	a--

post

a++ :- do your task first and then increment value

pre ++a :- do your inc. first and then the task

--a :- do your dec. first and then the task

a-- :- do your task first and then decrement value

Note:-   Syso(a++); ⟺ Syso(a); 5
                                a = a+1;

a=5

          Syso(++a); ⟺ a = a+1;
                                Syso(a); 6

Quel Print the o/p

```
Public static void main ( ) {
    int a = 5;
    int b = 6;
```

dry run

a=5	b=6
5	5
5	5
6	6
5	5
6	6

1)   b = a; ⟶
2)   a = b++; ⟶
3)   a = b--; ⟶
4)   b = --a; ⟶
5)   a = ++b; ⟶

⟩ b=6
⟩ b=5

```
    Syso (a); //6
    Syso (b); //6
}
```

task ⟹ to assign value

Que1

```
main() {
    int a;
    int b;
    int c;

    a = 5;
    b = a++;
    c = b++;
    a = ++b;
    b = ++c;
    c = ++a;
    a = b++;
    b = ++c;

    c = a++;

    Syso(a);
    Syso(b);
    Syso(c);
}
```

dry run

a	b	c