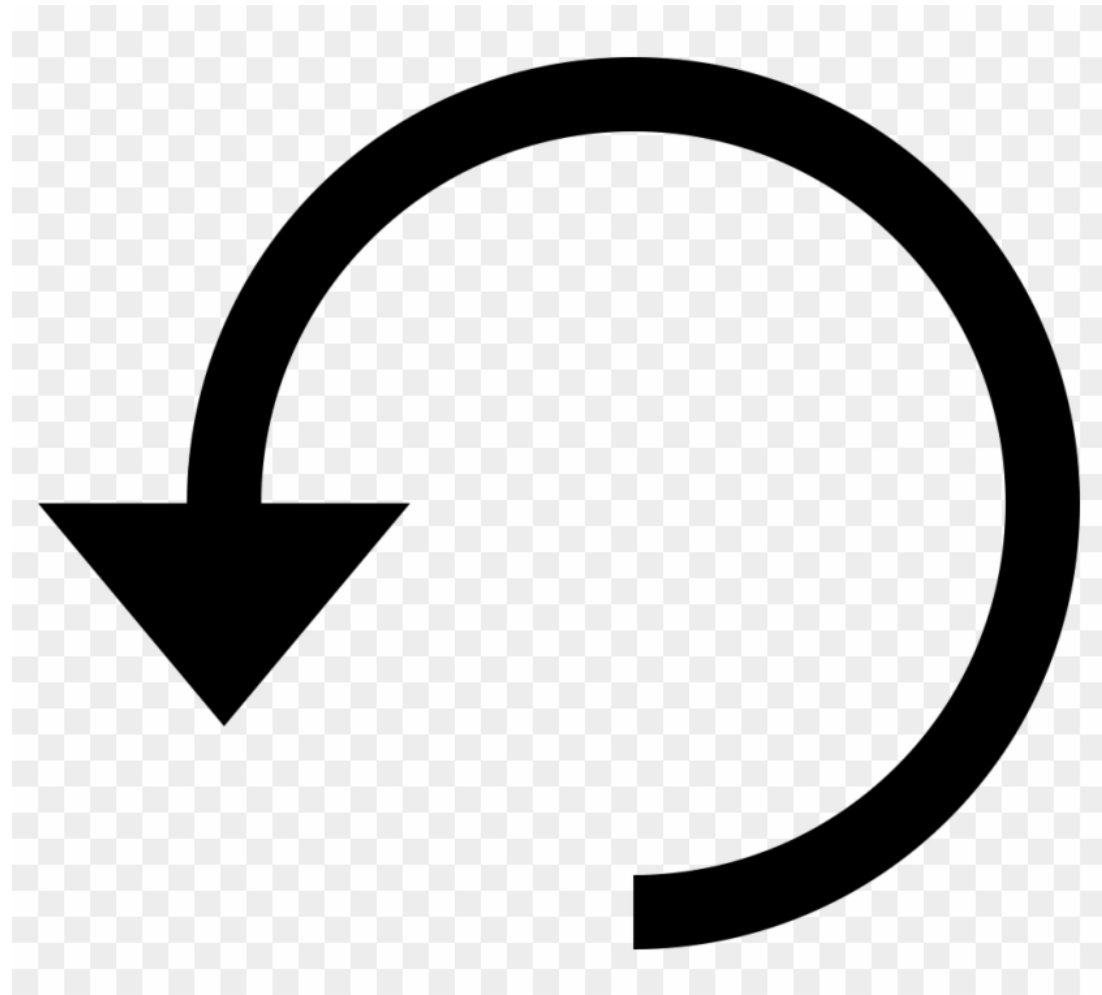


RETURN

Statement



IN THE NAME OF ALLAH

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

THE GRACIOUS, THE MERCIFUL.



GETS - GETTING EDUCATION WITH TECHNOLOGICAL SYSTEM

Instructor: Sir A.Rehman Ali Brohi

LECTURE: 4

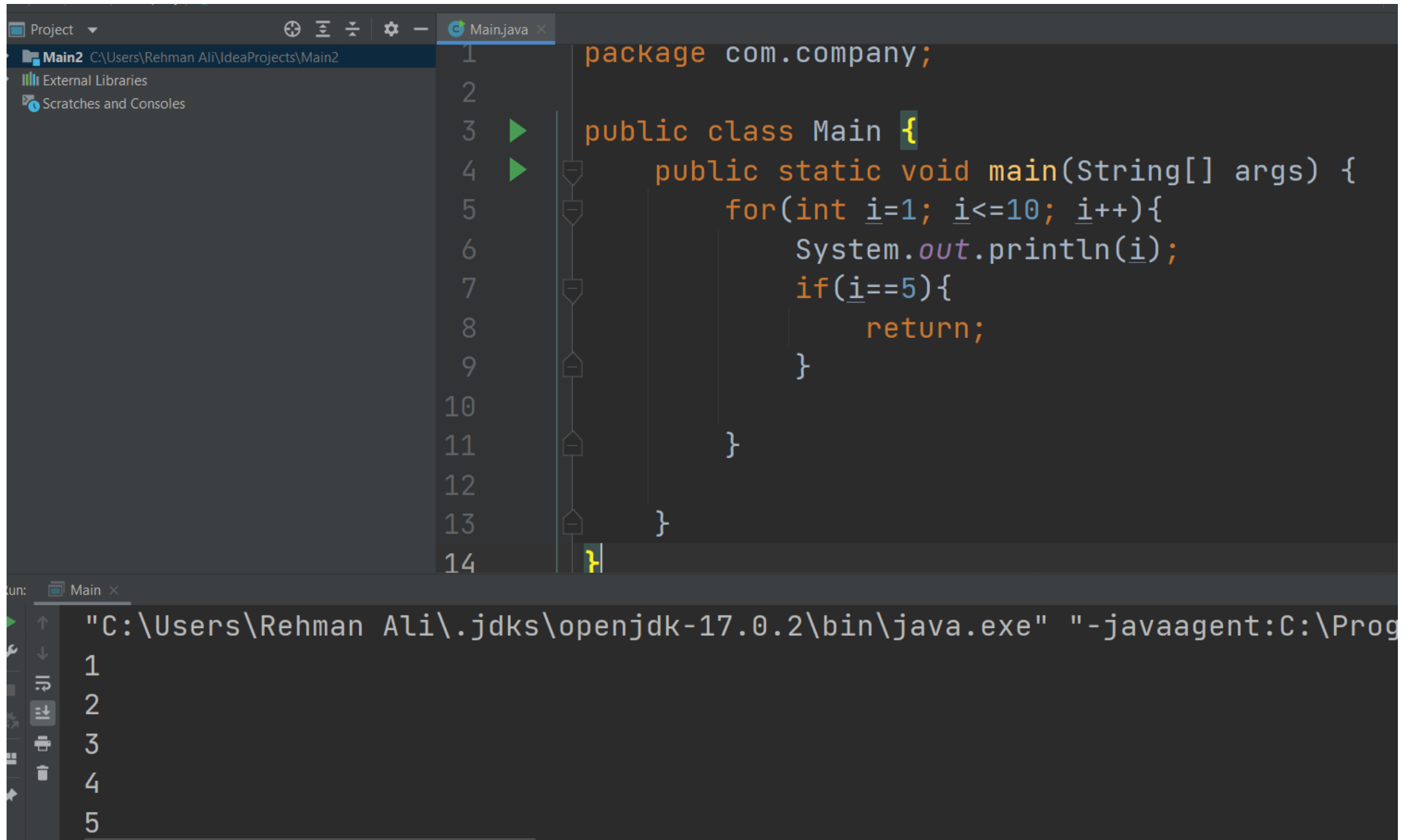
Return Statement



What is Return Statement?

- # A method can return some data using Return Statement
- # Return statement must be last executable statement
- # A method can have logically only 1 return statement
- # void method cannot have return statement

Return statement return to main program



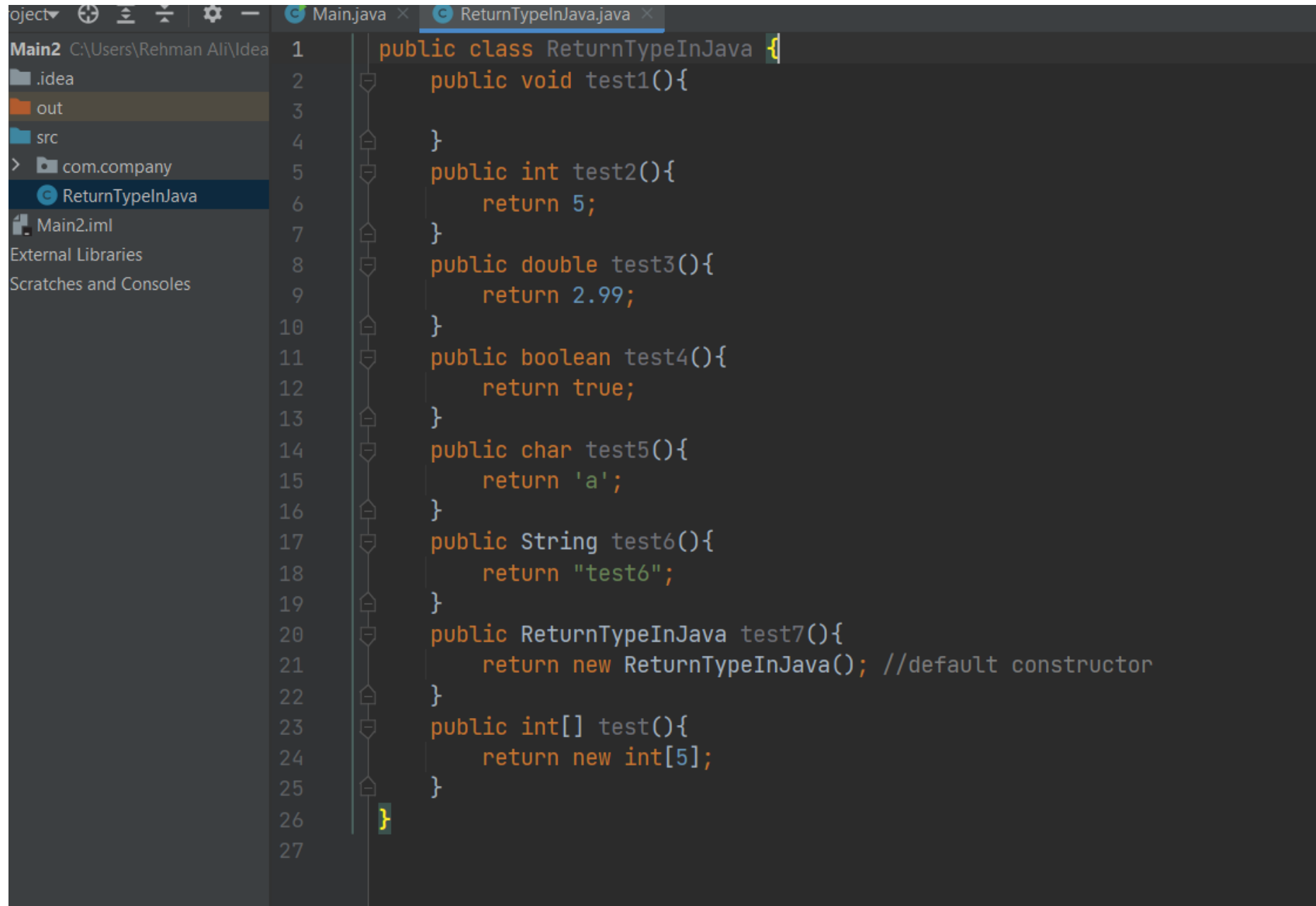
The screenshot shows an IDE with a project named 'Main2' and a file named 'Main.java'. The code in 'Main.java' is as follows:

```
1 package com.company;  
2  
3 public class Main {  
4     public static void main(String[] args) {  
5         for(int i=1; i<=10; i++){  
6             System.out.println(i);  
7             if(i==5){  
8                 return;  
9             }  
10        }  
11    }  
12  
13 }  
14
```

The code is executed, and the output is shown in the console window at the bottom. The output is the command used to run the program:

```
run: "C:\Users\Rehman Ali\.jdk\openjdk-17.0.2\bin\java.exe" "-javaagent:C:\Prog  
1  
2  
3  
4  
5
```

Return statement types



The screenshot shows an IDE window with two tabs: 'Main.java' and 'ReturnTypeInJava.java'. The 'ReturnTypeInJava.java' tab is active, displaying the following Java code:

```
1 public class ReturnTypeInJava {  
2     public void test1(){  
3  
4     }  
5     public int test2(){  
6         return 5;  
7     }  
8     public double test3(){  
9         return 2.99;  
10    }  
11    public boolean test4(){  
12        return true;  
13    }  
14    public char test5(){  
15        return 'a';  
16    }  
17    public String test6(){  
18        return "test6";  
19    }  
20    public ReturnTypeInJava test7(){  
21        return new ReturnTypeInJava(); //default constructor  
22    }  
23    public int[] test(){  
24        return new int[5];  
25    }  
26 }  
27
```

The left sidebar shows the project structure for 'Main2' at 'C:\Users\Rehman Ali\Idea'. The 'src' folder contains a 'com.company' package, which includes the 'ReturnTypeInJava' class. Other files in the project include 'Main2.iml', 'External Libraries', and 'Scratches and Consoles'.

Program for Addition using return statement



```
1 package com.company;
2
3 public class Main {
4     public static void main(String[] args) {
5         Calc co = new Calc();
6         int c = co.add(a: 10, b: 20);
7
8         System.out.println("Addition is: "+c);
9     }
10 }
11
12 class Calc{
13     public int add(int a, int b){
14         return a+b;
15     }
16 }
```

Main x

"C:\Users\Rehman Ali\.jdk\openjdk-17.0.2\bin\java.exe" "-javaagent:C:\Pro
Addition is: 30

Process finished with exit code 0

Assaignment :
create methods mul, add, sub, div
with return statement