METHODS IN JAVA

Assignment: 5

Date: 21-07-2023
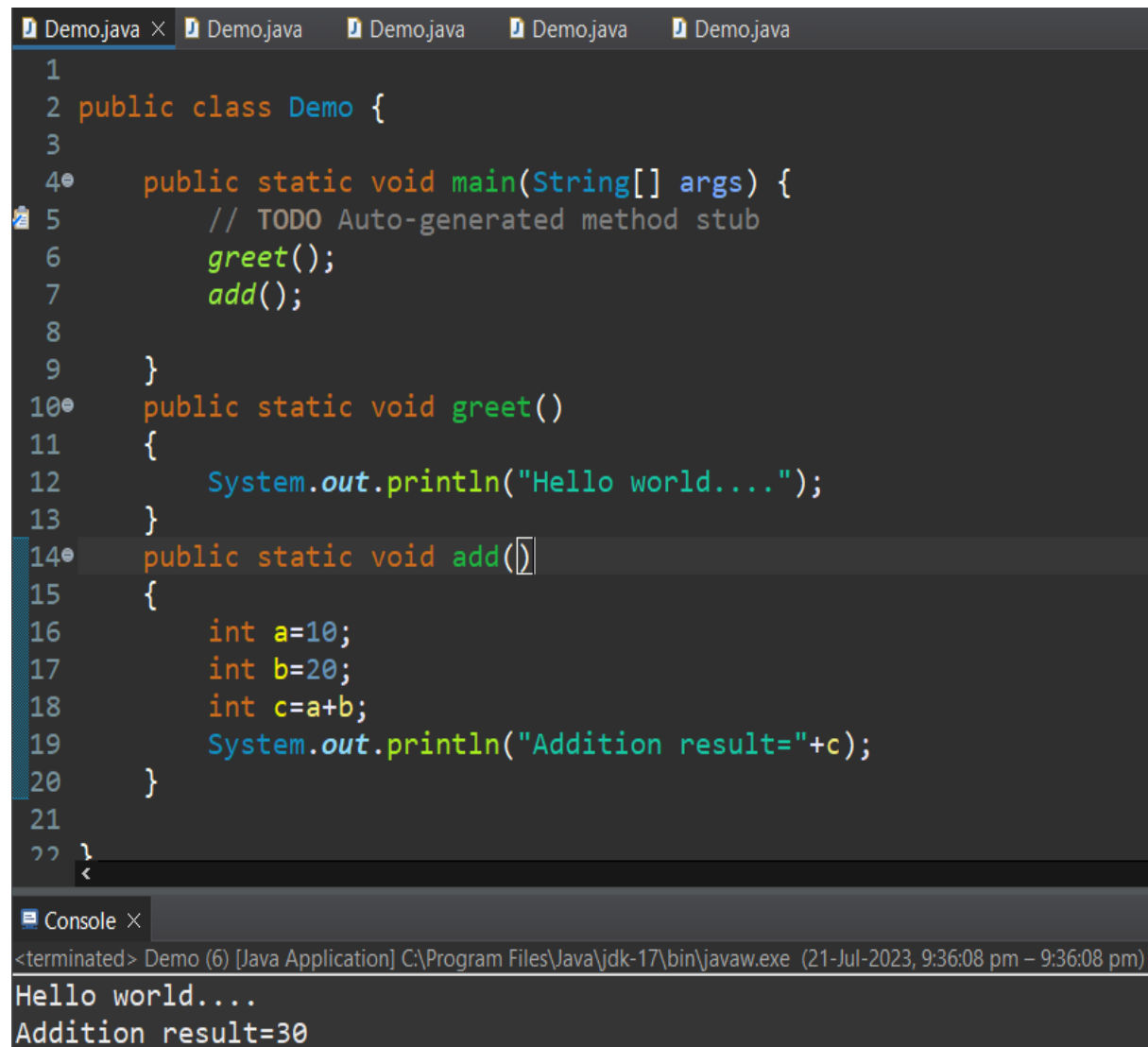
Name: Vyshnavi H S

E-mail id: vyshnavirao5@gmail.com

Methods in java:

- Methods are the set of statements used to perform a particular task.
- If a method has to be executed, it has to be called by using its name.

Example

```java
public class Demo {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        greet();
        add();

    }
    public static void greet()
    {
        System.out.println("Hello world....");
    }
    public static void add()
    {
        int a=10;
        int b=20;
        int c=a+b;
        System.out.println("Addition result="+c);
    }
}
```
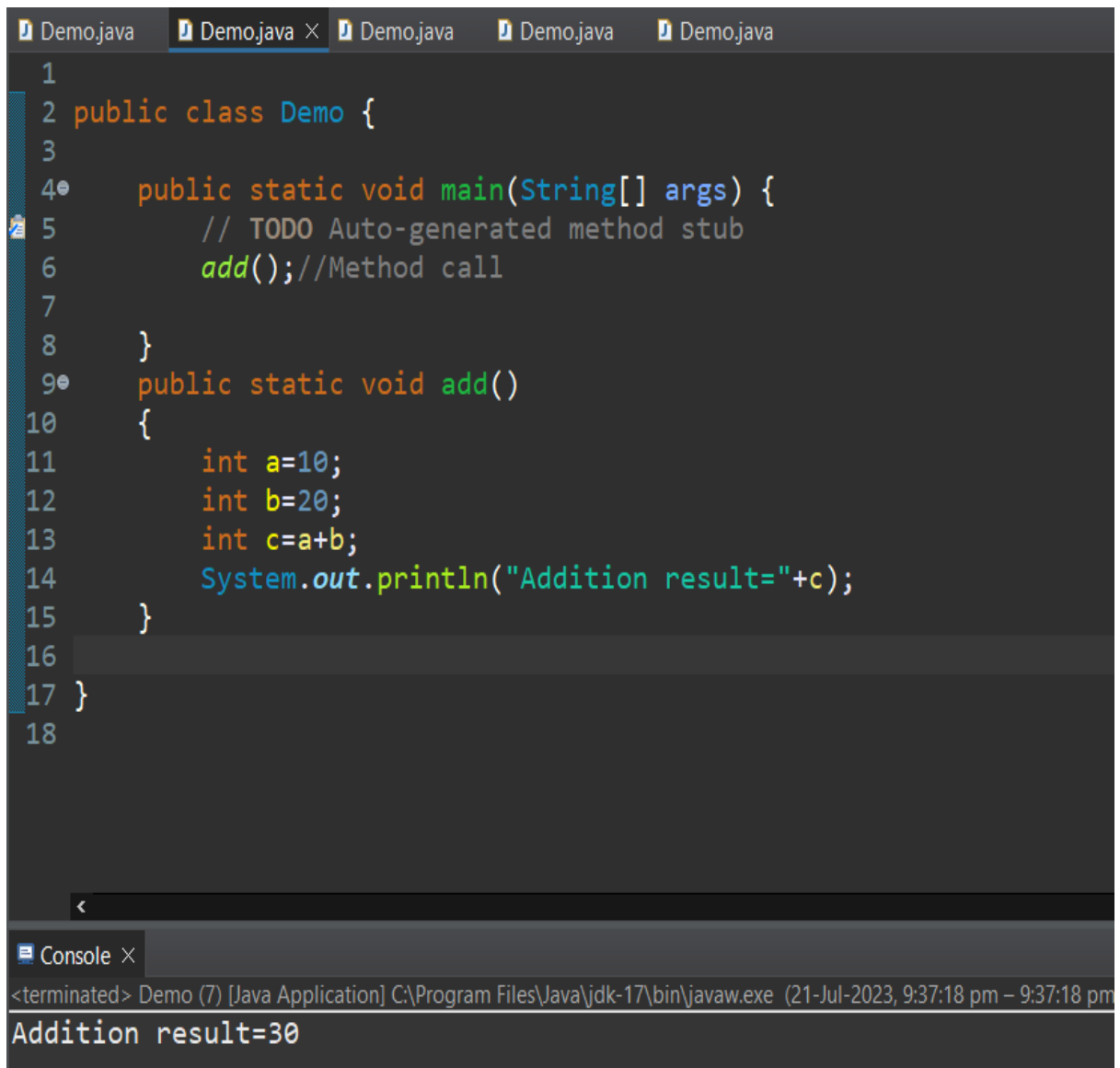
Console ×
<terminated> Demo (6) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (21-Jul-2023, 9:36:08 pm – 9:36:08 pm)
```
Hello world....
Addition result=30
```

Type-1

- No parameters accepted
- No return value

```java
public class Demo {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        add();//Method call

    }
    public static void add()
    {
        int a=10;
        int b=20;
        int c=a+b;
        System.out.println("Addition result="+c);
    }

}
```
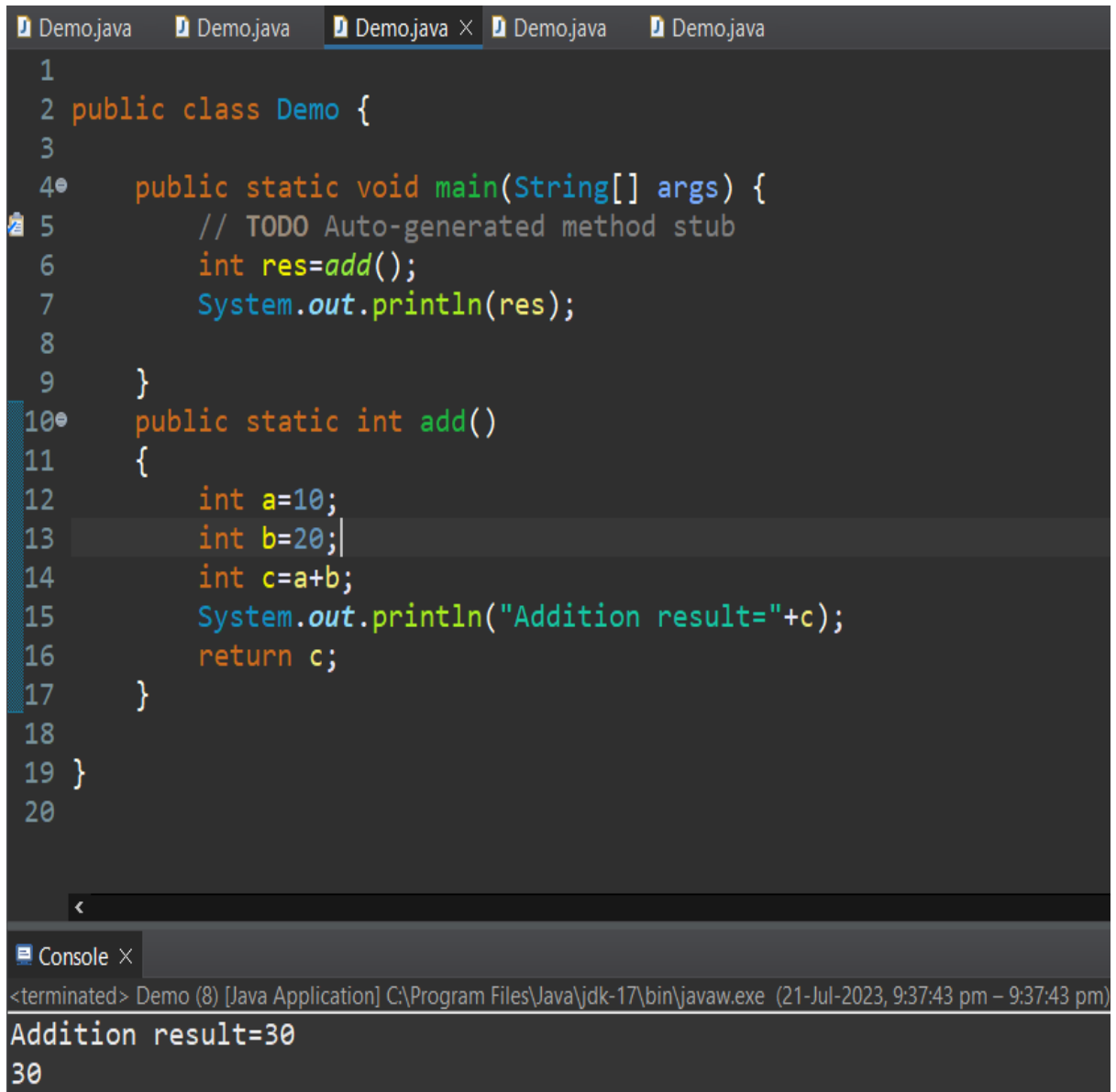
Console ×

```
Addition result=30
```

Type-2

- No parameters accepted
- Returns a value

```java
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         int res=add();
7         System.out.println(res);
8
9     }
10     public static int add()
11     {
12         int a=10;
13         int b=20;
14         int c=a+b;
15         System.out.println("Addition result="+c);
16         return c;
17     }
18
19 }
20
```
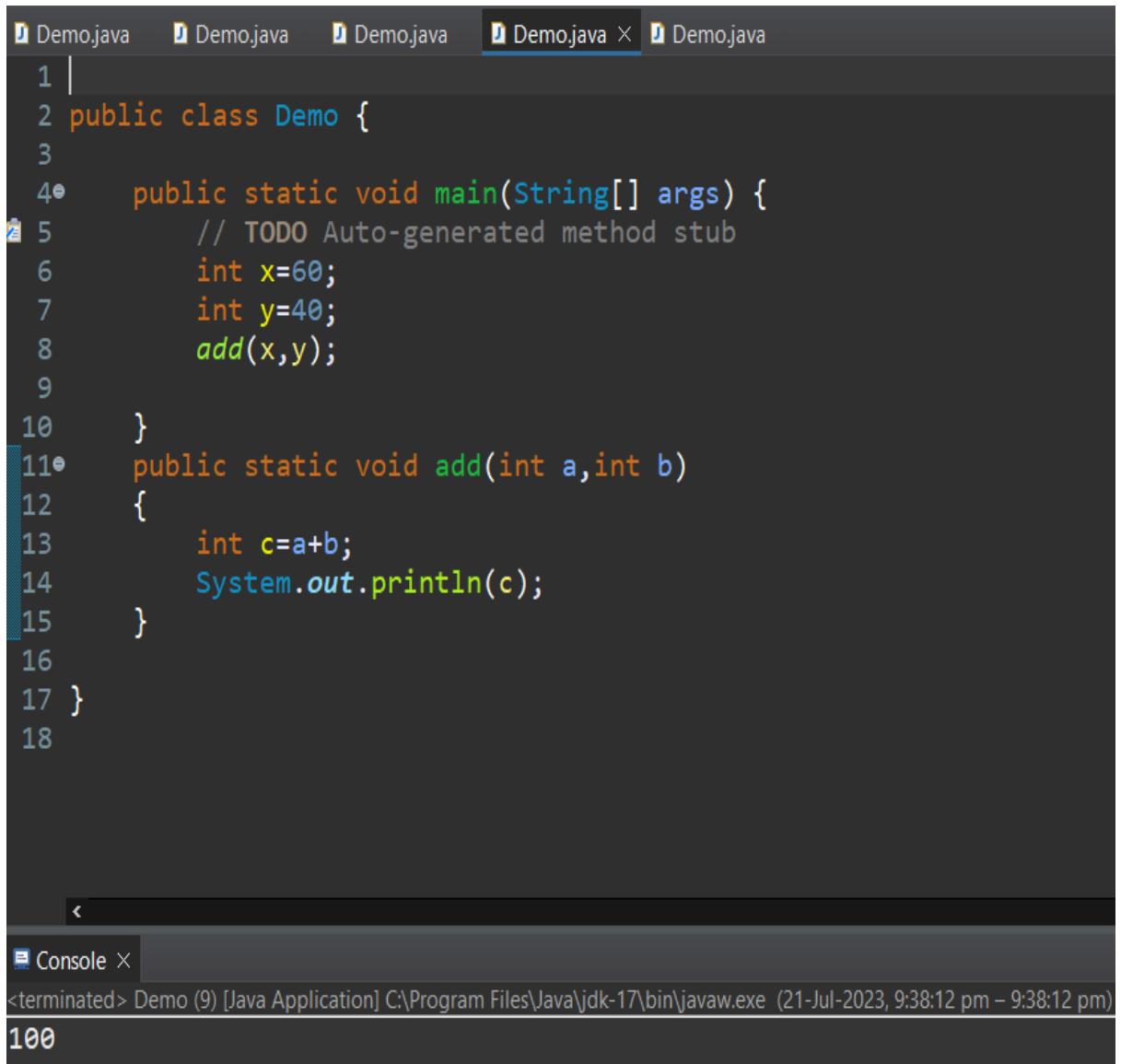
Console ×

<terminated> Demo (8) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (21-Jul-2023, 9:37:43 pm – 9:37:43 pm)

```
Addition result=30
30
```

Type-3

- Parameters accepted
- No return value

```java
public class Demo {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int x=60;
        int y=40;
        add(x,y);

    }
    public static void add(int a,int b)
    {
        int c=a+b;
        System.out.println(c);
    }
}
```
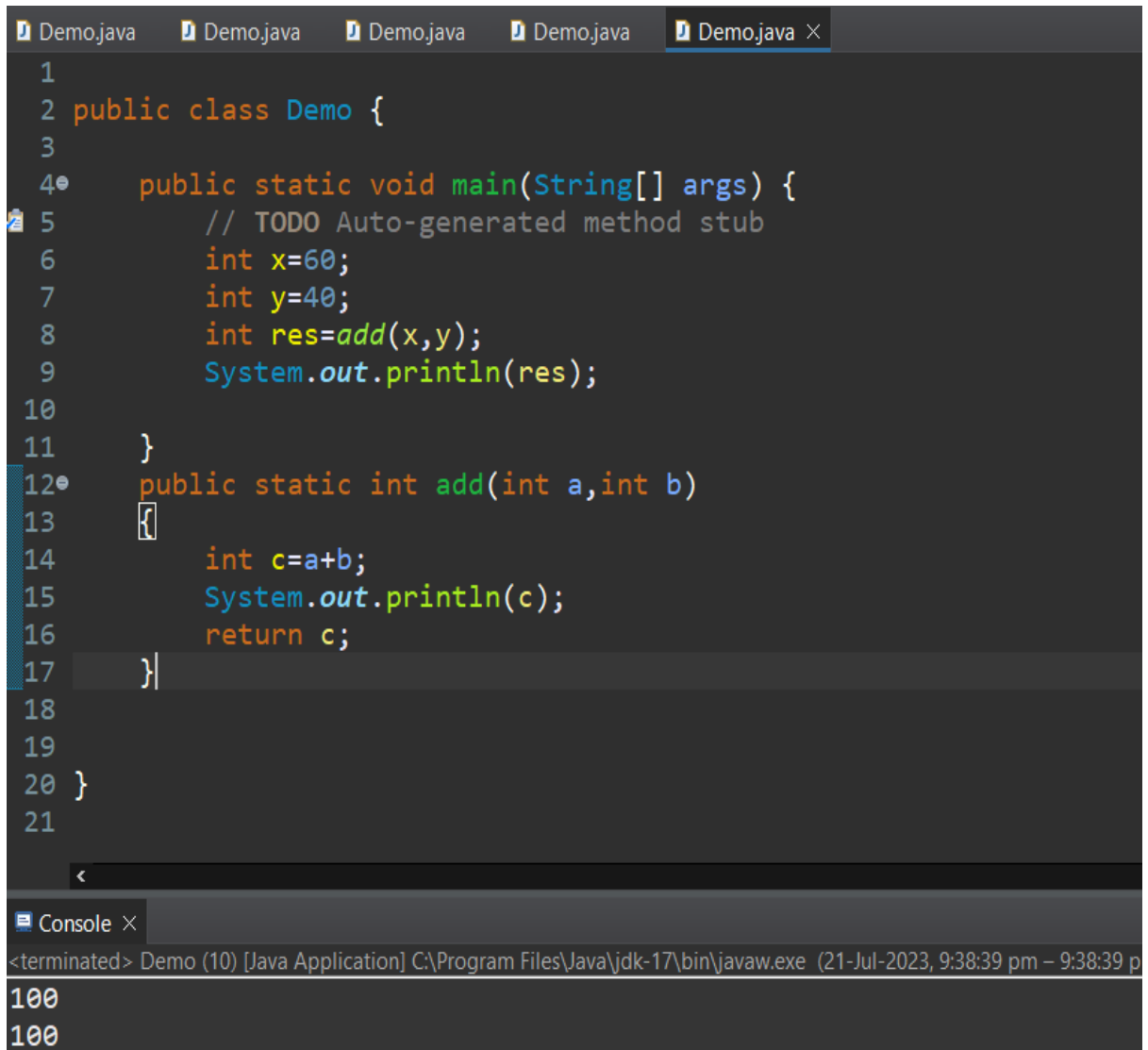
Console ×
<terminated> Demo (9) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (21-Jul-2023, 9:38:12 pm – 9:38:12 pm)
100

Type-4

- Parameters accepted
- Return a value

```java
public class Demo {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int x=60;
        int y=40;
        int res=add(x,y);
        System.out.println(res);

    }
    public static int add(int a,int b)
    {
        int c=a+b;
        System.out.println(c);
        return c;
    }

}
```

Console ×

<terminated> Demo (10) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (21-Jul-2023, 9:38:39 pm – 9:38:39 p

```
100
100
```