

## IntelliJ – JAVA Homework 1

In IntelliJ:

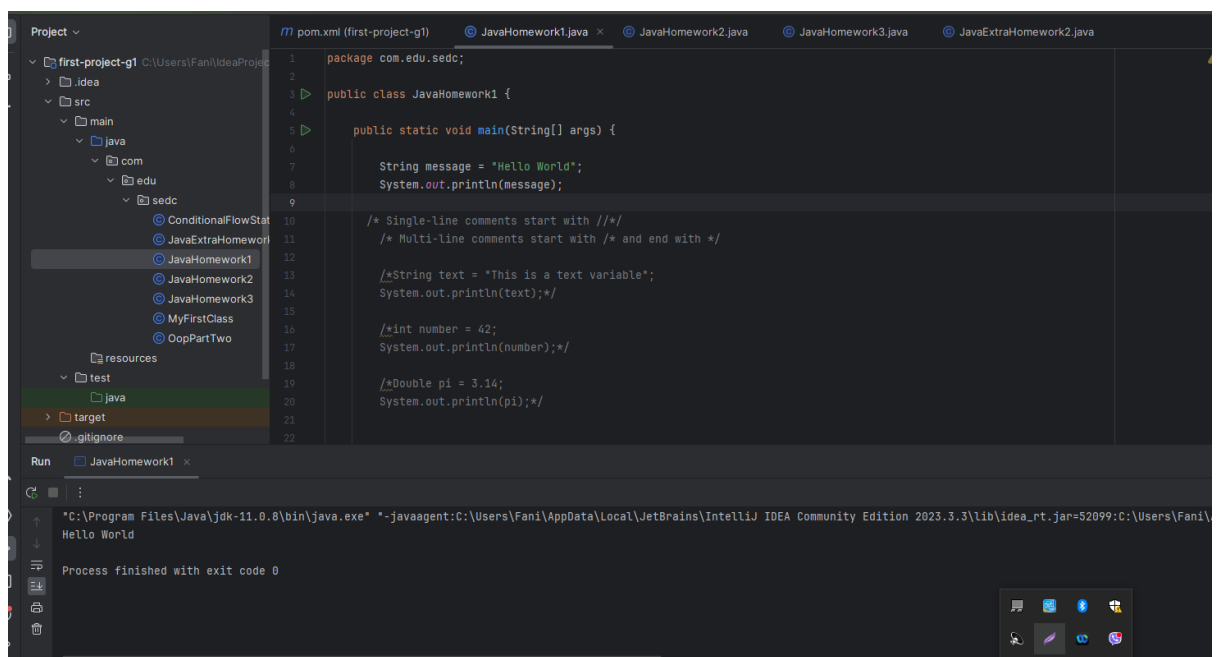
1. Write code to output "Hello World".

```
package com.edu.sedc;

public class JavaHomework1 {

    public static void main(String[] args) {

        String message = "Hello World";
        System.out.println(message);
    }
}
```



2. Insert the missing part:
  - Single-line comments start with //
  - Multi-line comments start with /\* and end with \*/.

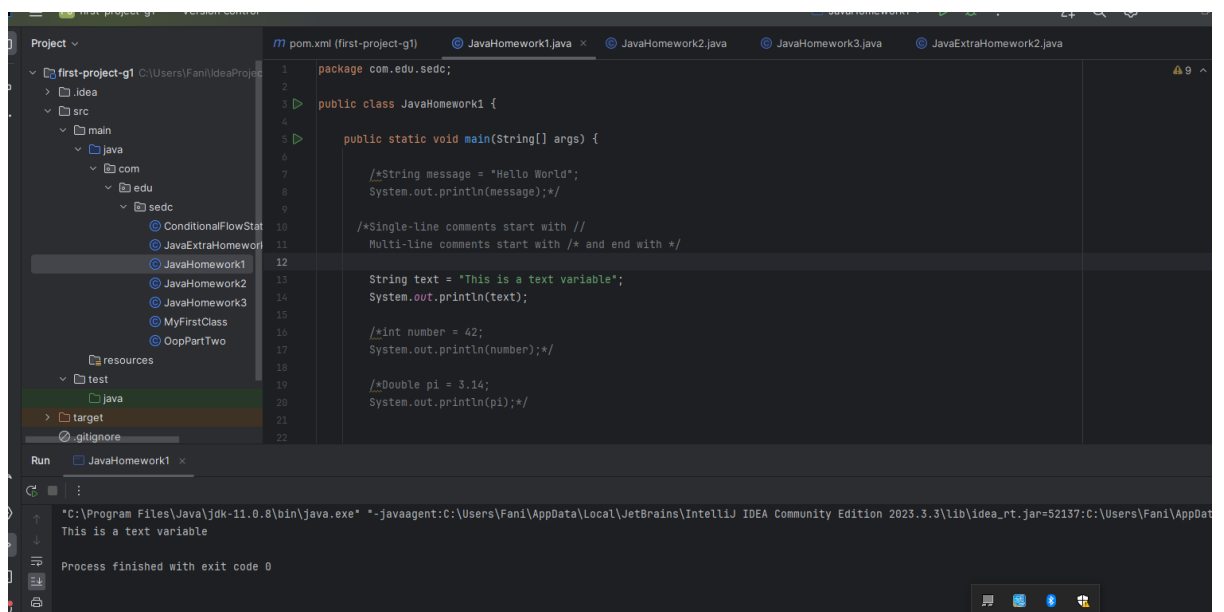
3. Inside the main() method insert a variable called text of type String and assign the value to it.
  - Print the value of the result using System.out.println().

```
package com.edu.sedc;

public class JavaHomework1 {

    public static void main(String[] args) {

        String text = "This is a text variable";
        System.out.println(text);
    }
}
```



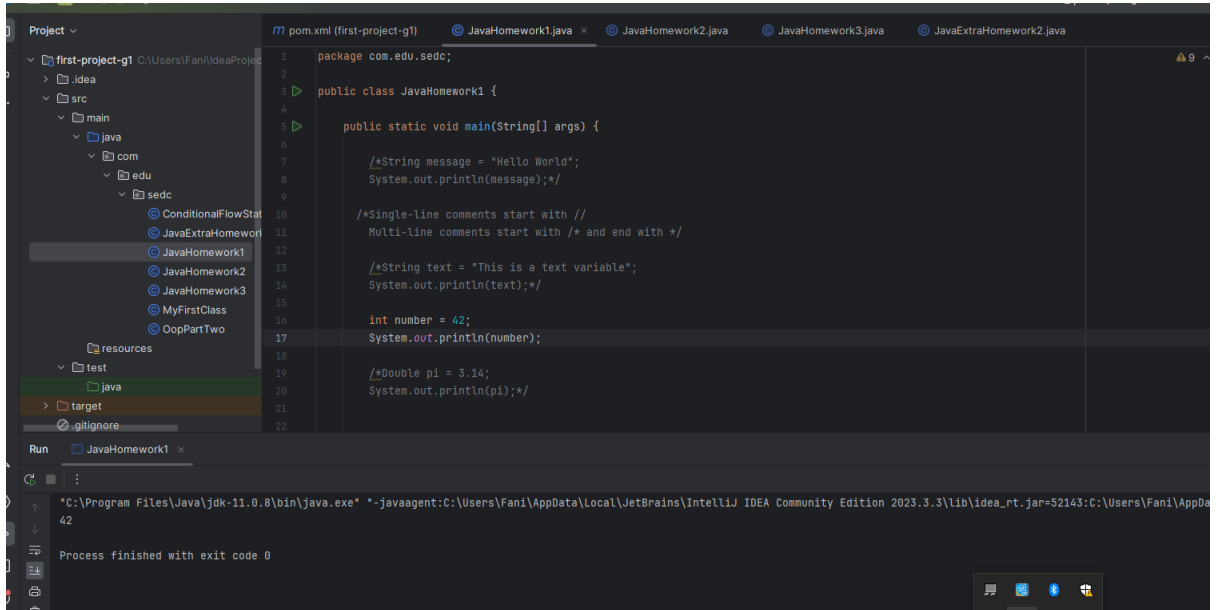
4. Create a variable of type int and assign the value to it.

```
package com.edu.sedc;

public class JavaHomework1 {

    public static void main(String[] args) {

        int number = 42;
        System.out.println(number);
    }
}
```



```

1 package com.edu.sedc;
2
3 public class JavaHomework1 {
4
5     public static void main(String[] args) {
6
7         /*String message = "Hello World";
8         System.out.println(message);*/
9
10        /*Single-line comments start with //
11        Multi-line comments start with /* and end with */
12
13        /*String text = "This is a text variable";
14        System.out.println(text);*/
15
16        int number = 42;
17        System.out.println(number);
18
19        /*Double pi = 3.14;
20        System.out.println(pi);*/
21
22    }

```

5. Create a variable of type double and assign the value to it.

```

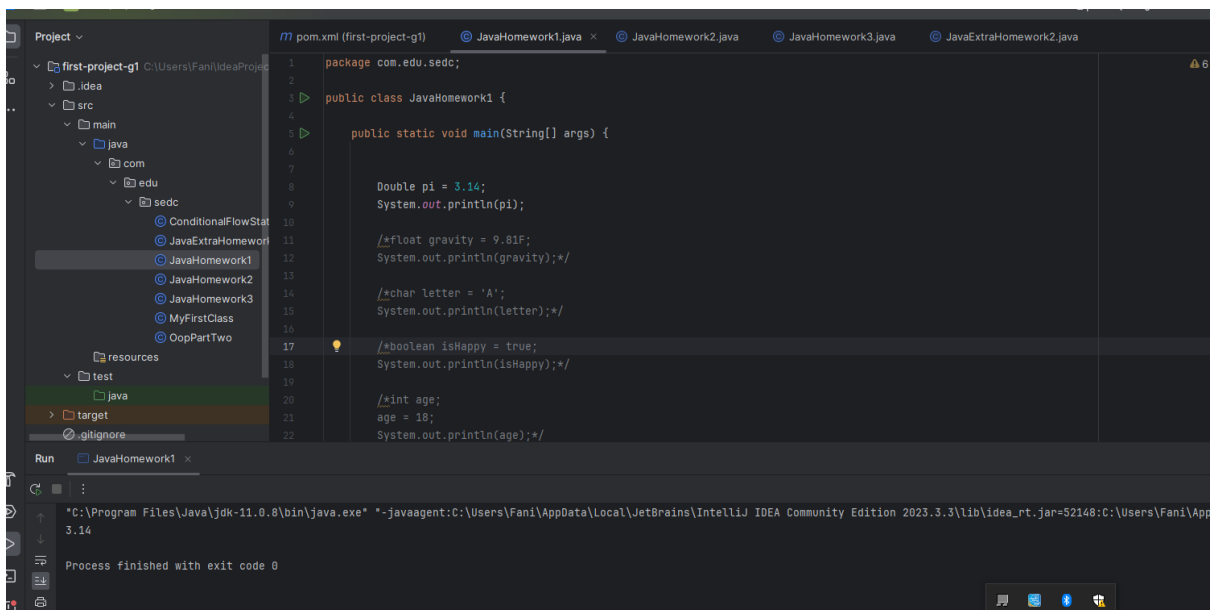
package com.edu.sedc;

public class JavaHomework1 {

    public static void main(String[] args) {

        Double pi = 3.14;
        System.out.println(pi);
    }

```



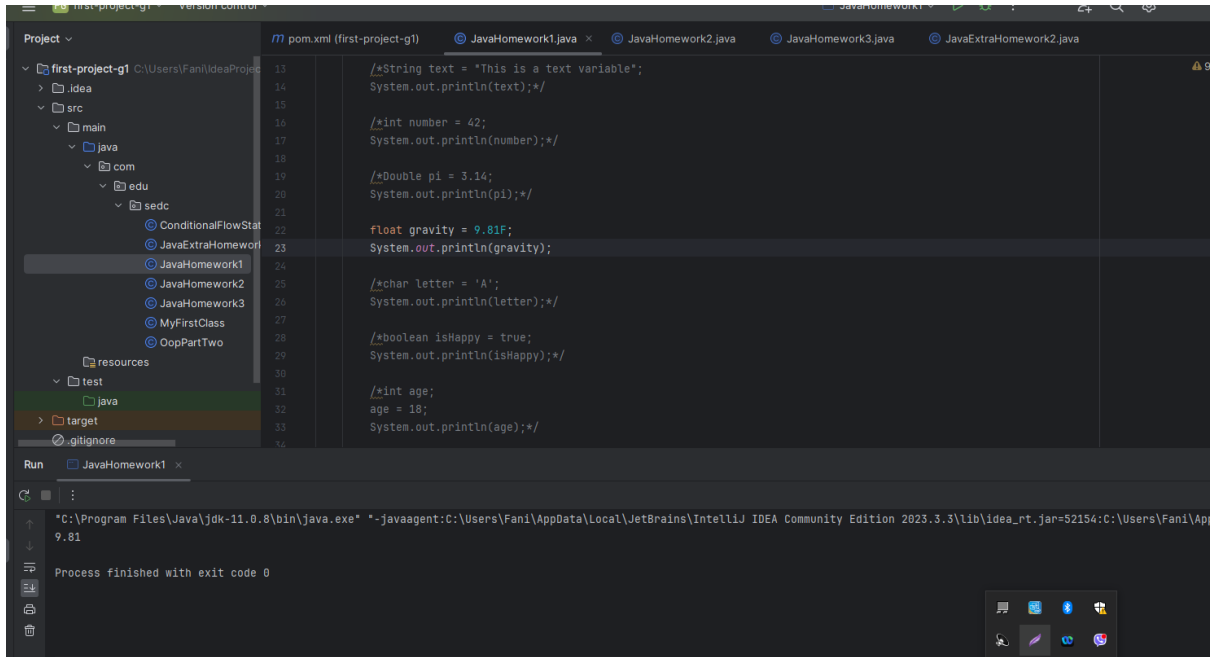
```

1 package com.edu.sedc;
2
3 public class JavaHomework1 {
4
5     public static void main(String[] args) {
6
7         Double pi = 3.14;
8         System.out.println(pi);
9
10        /*float gravity = 9.81F;
11        System.out.println(gravity);*/
12
13        /*char letter = 'A';
14        System.out.println(letter);*/
15
16        /*boolean isHappy = true;
17        System.out.println(isHappy);*/
18
19        /*int age;
20        age = 18;
21        System.out.println(age);*/
22    }

```

6. Create a variable of type float and assign the value to it.

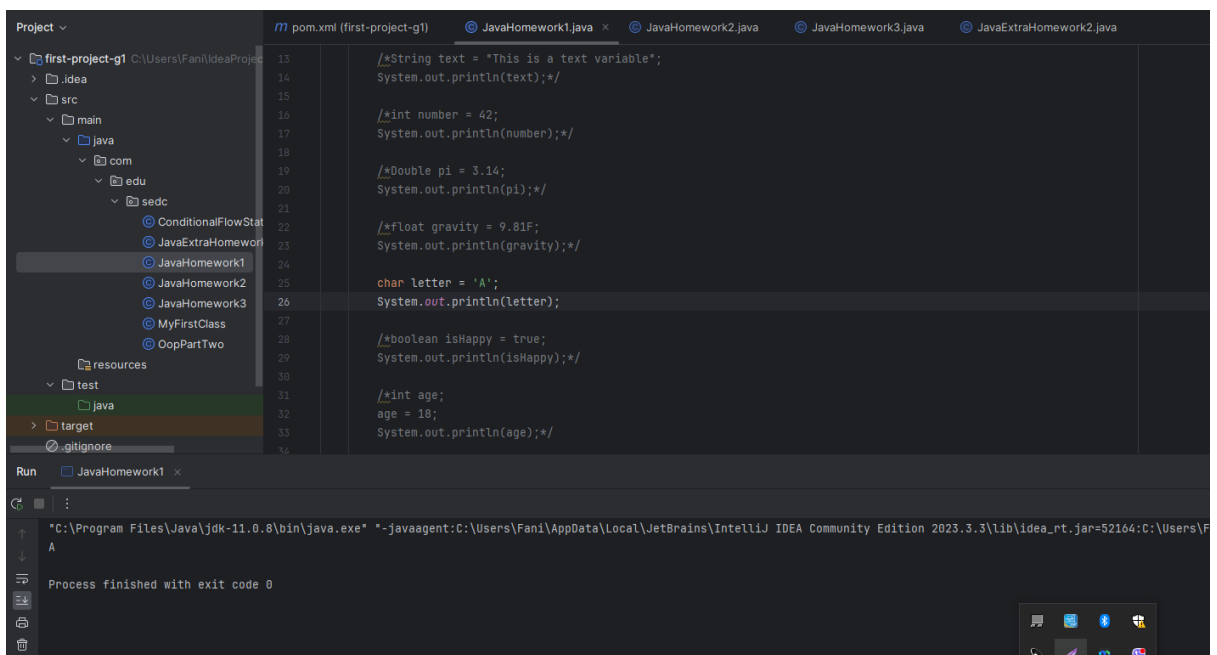
```
System.out.println(pi);*/  
  
float gravity = 9.81F;  
System.out.println(gravity);
```



The screenshot shows the IntelliJ IDEA interface. The project structure on the left includes 'first-project-g1' with subdirectories 'src' and 'test'. The 'src' directory contains 'main' and 'resources'. The 'main' directory contains 'com', 'edu', and 'sedc'. The 'edu' directory contains 'ConditionalFlowStat', 'JavaExtraHomework1', 'JavaHomework1', 'JavaHomework2', 'JavaHomework3', 'MyFirstClass', and 'OopPartTwo'. The 'resources' directory contains 'java' and 'target'. The 'Run' tab shows the command: `"C:\Program Files\Java\jdk-11.0.8\bin\java.exe" "-javaagent:C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea_rt.jar=52154:C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin" -Didea.config.path=C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\config -Didea.system.path=C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin -Didea.version=2023.3.3`. The output is `9.81`.

7. Create a variable of type char and assign the value to it.

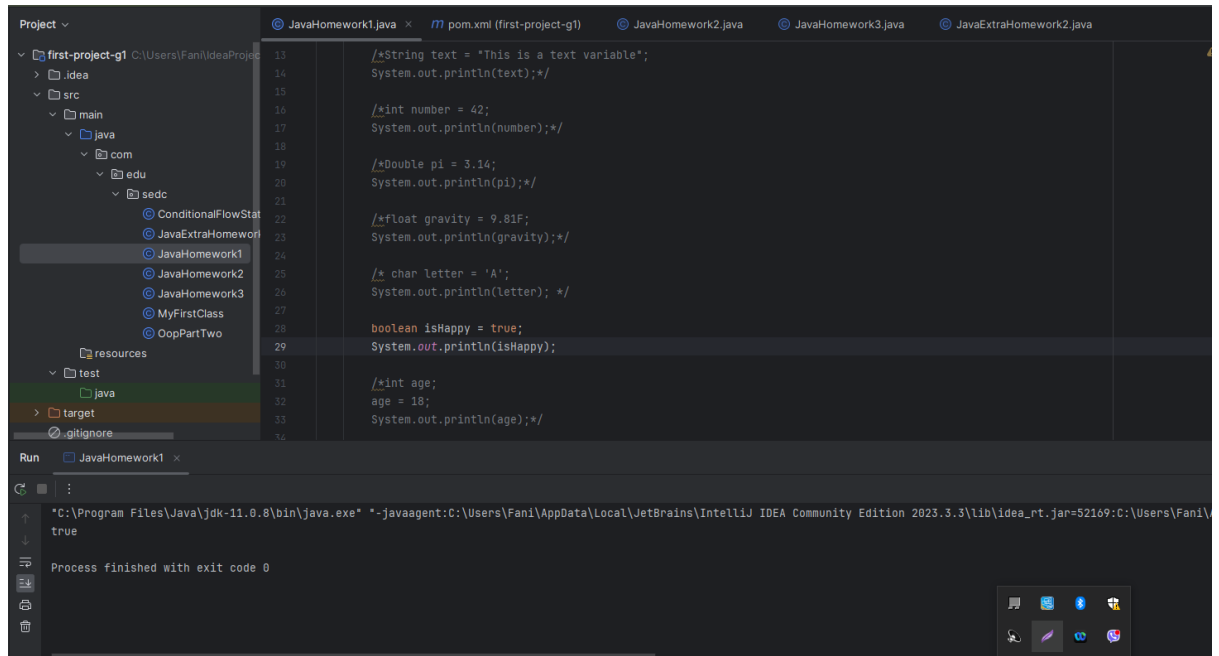
```
char letter = 'A';  
System.out.println(letter);
```



The screenshot shows the IntelliJ IDEA interface. The project structure on the left is the same as in the previous screenshot. The 'Run' tab shows the command: `"C:\Program Files\Java\jdk-11.0.8\bin\java.exe" "-javaagent:C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea_rt.jar=52164:C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin" -Didea.config.path=C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\config -Didea.system.path=C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin -Didea.version=2023.3.3`. The output is `A`.

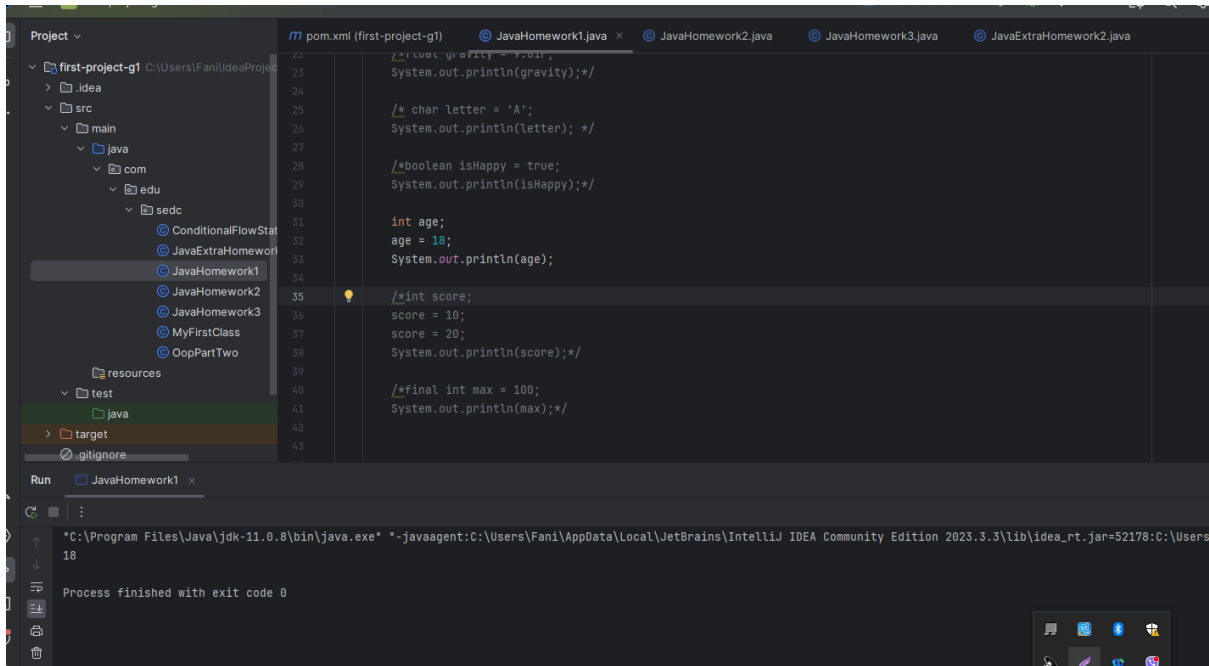
8. Create a variable of type boolean and assign the value to it.

```
boolean isHappy = true;  
System.out.println(isHappy);
```



9. Declare a variable of type int without assigning the value.
- After declaring variable assign the value later.
  - Print the variable value.

```
int age;  
age = 18;  
System.out.println(age);
```



```

22  //Print out gravity = 9.81;
23  System.out.println(gravity);*/
24
25  /* char letter = 'A';
26  System.out.println(letter); */
27
28  /*boolean isHappy = true;
29  System.out.println(isHappy);*/
30
31  /*int age;
32  age = 18;
33  System.out.println(age);
34
35  /*int score;
36  score = 10;
37  score = 20;
38  System.out.println(score);*/
39
40  /*final int max = 100;
41  System.out.println(max);*/
42
43

```

Run JavaHomework1 x

"C:\Program Files\Java\jdk-11.0.8\bin\java.exe" "-javaagent:C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea\_rt.jar=52178:C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin" -Didea.config.path=C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\config -Didea.system.path=C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea\_rt.jar -Didea.version=2023.3.3 18

Process finished with exit code 0

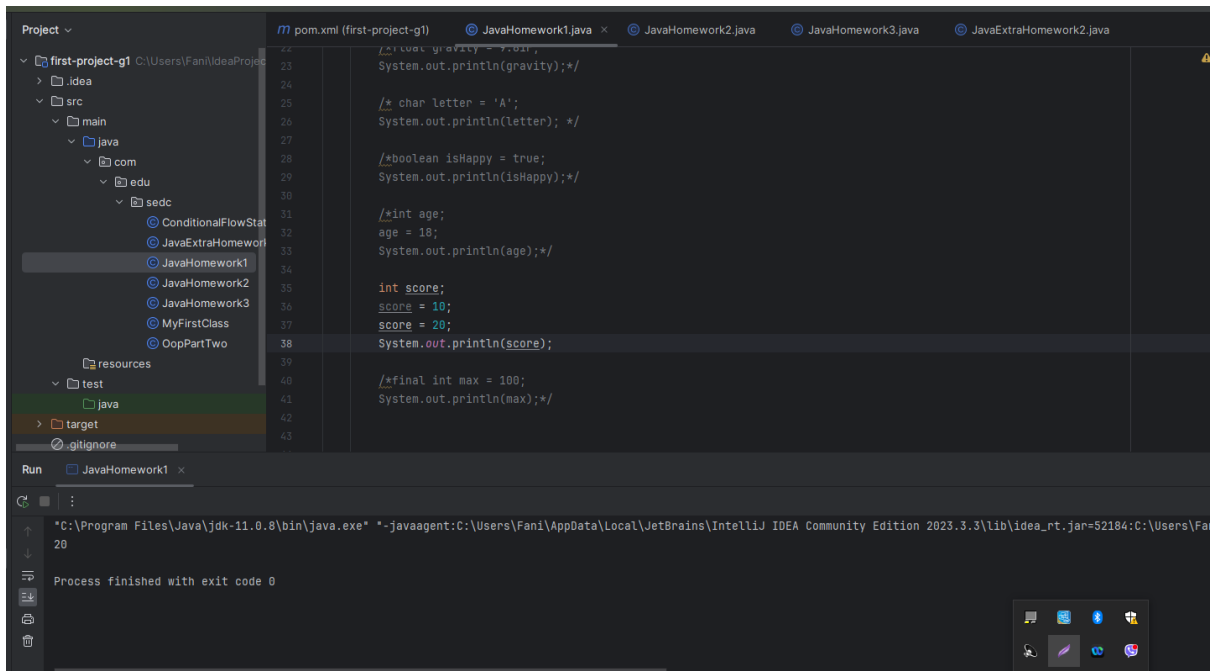
10. Declare a variable of type int without assigning the value, assign the value later.

- Assign a new value to an existing variable, to overwrite the previous value.
- Print the variable value.

```

int score;
score = 10;
score = 20;
System.out.println(score);

```



```

22  //Print out gravity = 9.81;
23  System.out.println(gravity);*/
24
25  /* char letter = 'A';
26  System.out.println(letter); */
27
28  /*boolean isHappy = true;
29  System.out.println(isHappy);*/
30
31  /*int age;
32  age = 18;
33  System.out.println(age);*/
34
35  /*int score;
36  score = 10;
37  score = 20;
38  System.out.println(score);*/
39
40  /*final int max = 100;
41  System.out.println(max);*/
42
43

```

Run JavaHomework1 x

"C:\Program Files\Java\jdk-11.0.8\bin\java.exe" "-javaagent:C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea\_rt.jar=52184:C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin" -Didea.config.path=C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\config -Didea.system.path=C:\Users\Fani\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea\_rt.jar -Didea.version=2023.3.3 20

Process finished with exit code 0

11. Create a variable of type int that others can not overwrite her existing value.
- Print the result.

```
final int max = 100;  
System.out.println(max);
```



The screenshot shows the IntelliJ IDEA IDE. On the left, the Project Explorer displays the file structure of 'first-project-g1', including 'src/main/java/com/edu/sedc' and 'resources'. The main editor window shows the code for 'JavaHomework1.java'. The code includes several commented-out lines for variables like 'gravity', 'letter', 'isHappy', 'age', and 'score', followed by a line that defines a final integer variable 'max' with the value 100, and a line that prints 'max' to the console. The bottom panel shows the Run tool window with the command 'C:\Program Files\Java\jdk-11.0.8\bin\java.exe' and the output '100'. The status bar at the bottom indicates 'Process finished with exit code 0'.

```
22  // private gravity = 9.81;  
23  System.out.println(gravity);*/  
24  
25  /* char letter = 'A';  
26  System.out.println(letter); */  
27  
28  /*boolean isHappy = true;  
29  System.out.println(isHappy);*/  
30  
31  /*int age;  
32  age = 18;  
33  System.out.println(age);*/  
34  
35  /*int score;  
36  score = 10;  
37  score = 20;  
38  System.out.println(score);*/  
39  
40  final int max = 100;  
41  System.out.println(max);  
42  
43
```

"C:\Program Files\Java\jdk-11.0.8\bin\java.exe" "-javaagent:C:\Users\FanI\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea\_rt.jar=S2192:C:\Us  
100  
Process finished with exit code 0