

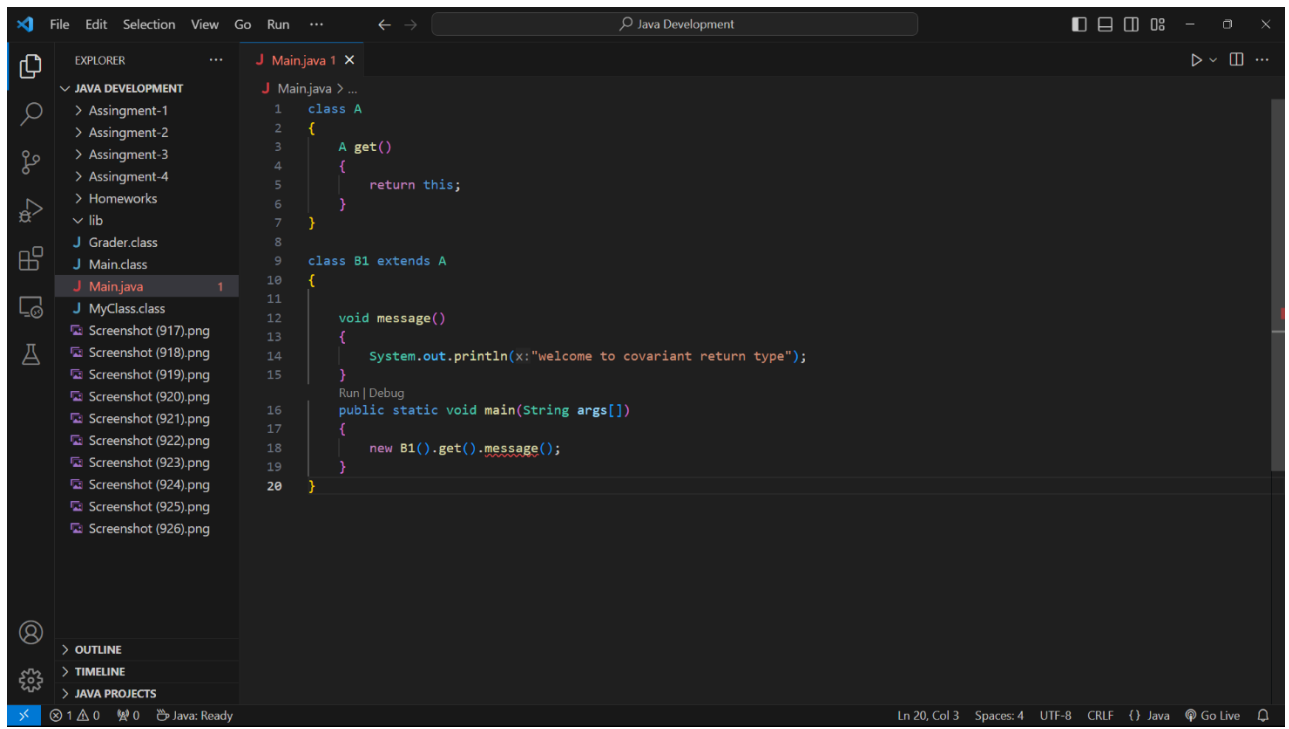
SUBMITTED BY: -

KANISHK

2205130

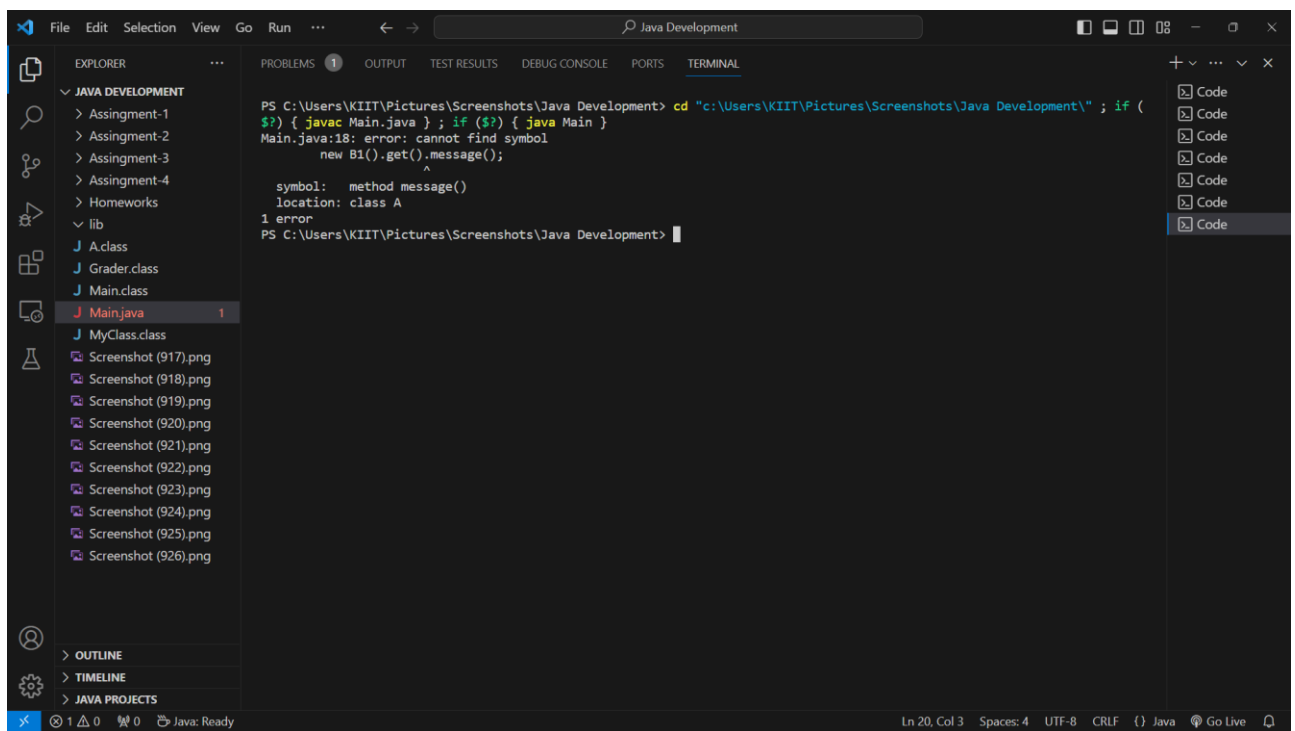
CSE-37

Q1 INPUT: -



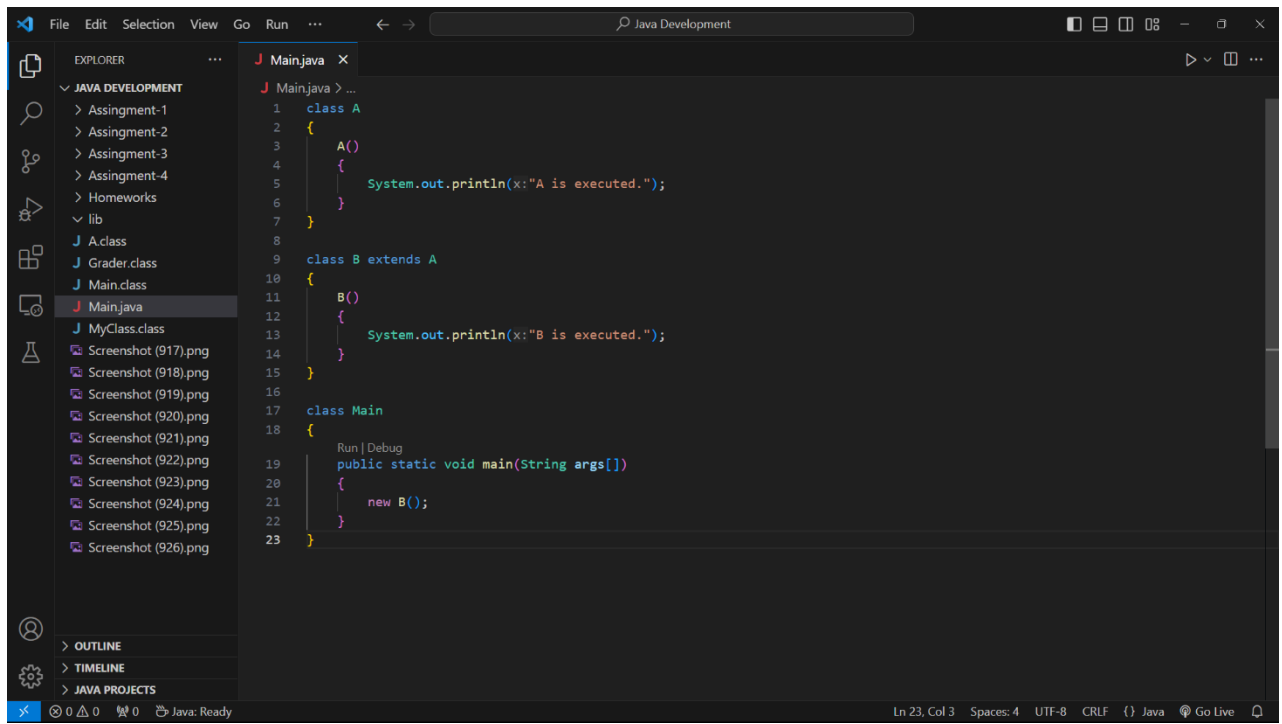
```
1 class A
2 {
3     A get()
4     {
5         return this;
6     }
7 }
8
9 class B1 extends A
10 {
11
12     void message()
13     {
14         System.out.println(x:"welcome to covariant return type");
15     }
16
17     Run | Debug
18     public static void main(String args[])
19     {
20         new B1().get().message();
21     }
22 }
```

OUTPUT: -

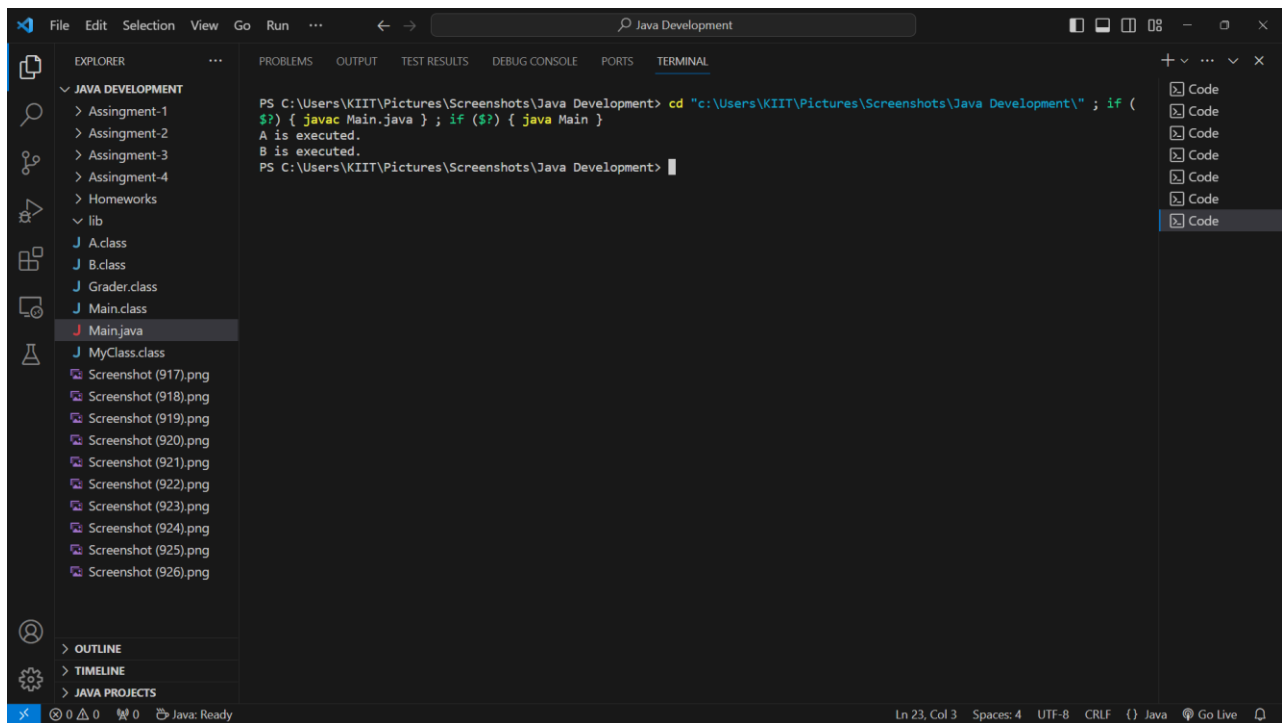


```
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ; if ($?) { javac Main.java } ; if ($?) { java Main }
Main.java:18: error: cannot find symbol
    new B1().get().message();
                  ^
    symbol:   method message()
    location: class A
1 error
PS C:\Users\KIIT\Pictures\Screenshots\Java Development>
```

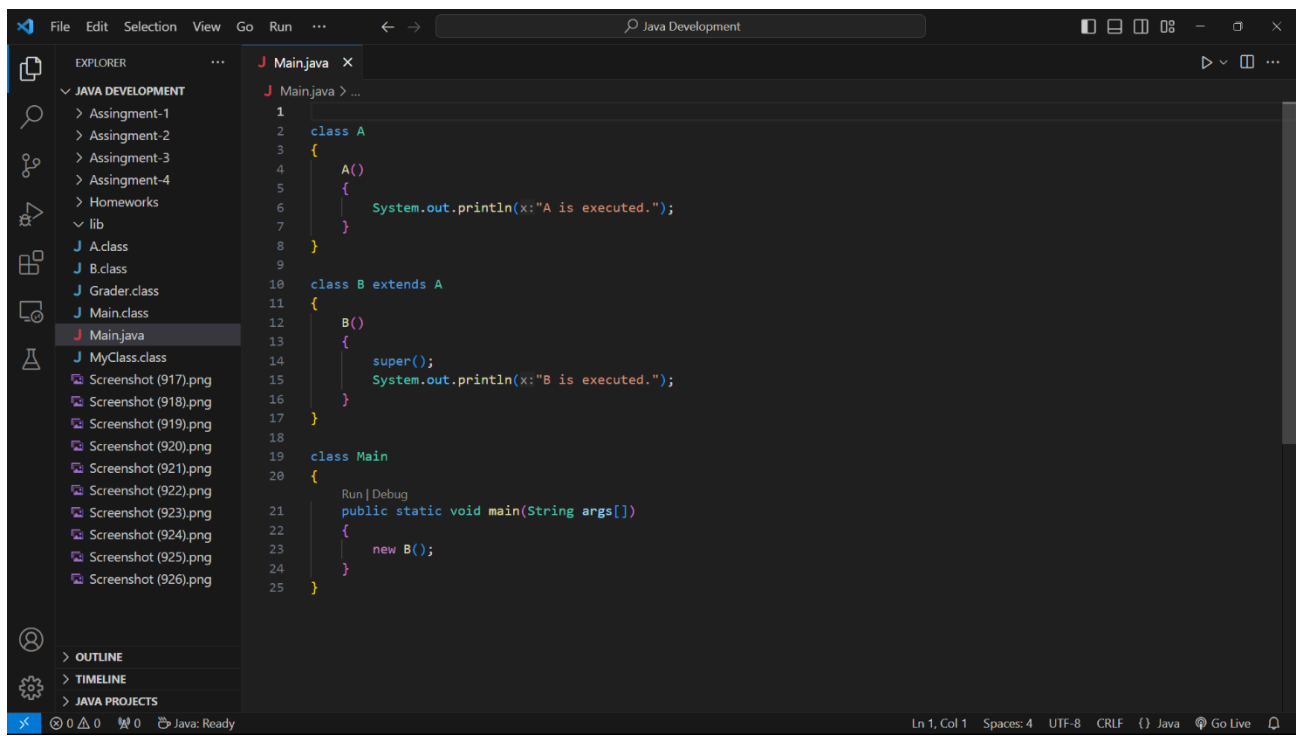
Q2 INPUT: -



OUTPUT: -



Q3 INPUT: -

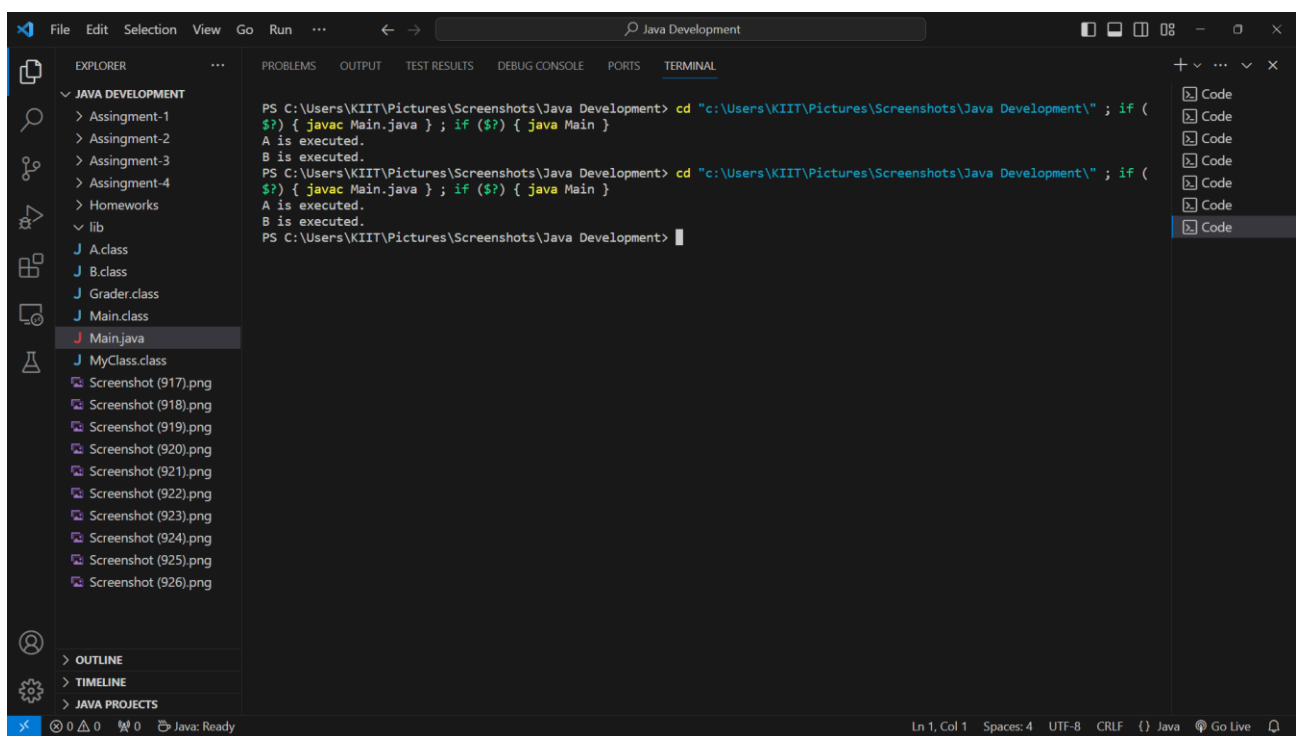


The screenshot shows an IDE with the following Java code in `Main.java`:

```
1 class A
2 {
3     A()
4     {
5         System.out.println(x:"A is executed.");
6     }
7 }
8
9
10 class B extends A
11 {
12     B()
13     {
14         super();
15         System.out.println(x:"B is executed.");
16     }
17 }
18
19 class Main
20 {
21     Run | Debug
22     public static void main(String args[])
23     {
24         new B();
25     }
26 }
```

The Explorer panel on the left shows a project structure with files like `A.class`, `B.class`, `Grader.class`, `Main.class`, `Main.java`, `MyClass.class`, and several screenshot files. The status bar at the bottom indicates 'Ln 1, Col 1 Spaces: 4 UTF-8 CRLF {} Java Go Live'.

OUTPUT: -

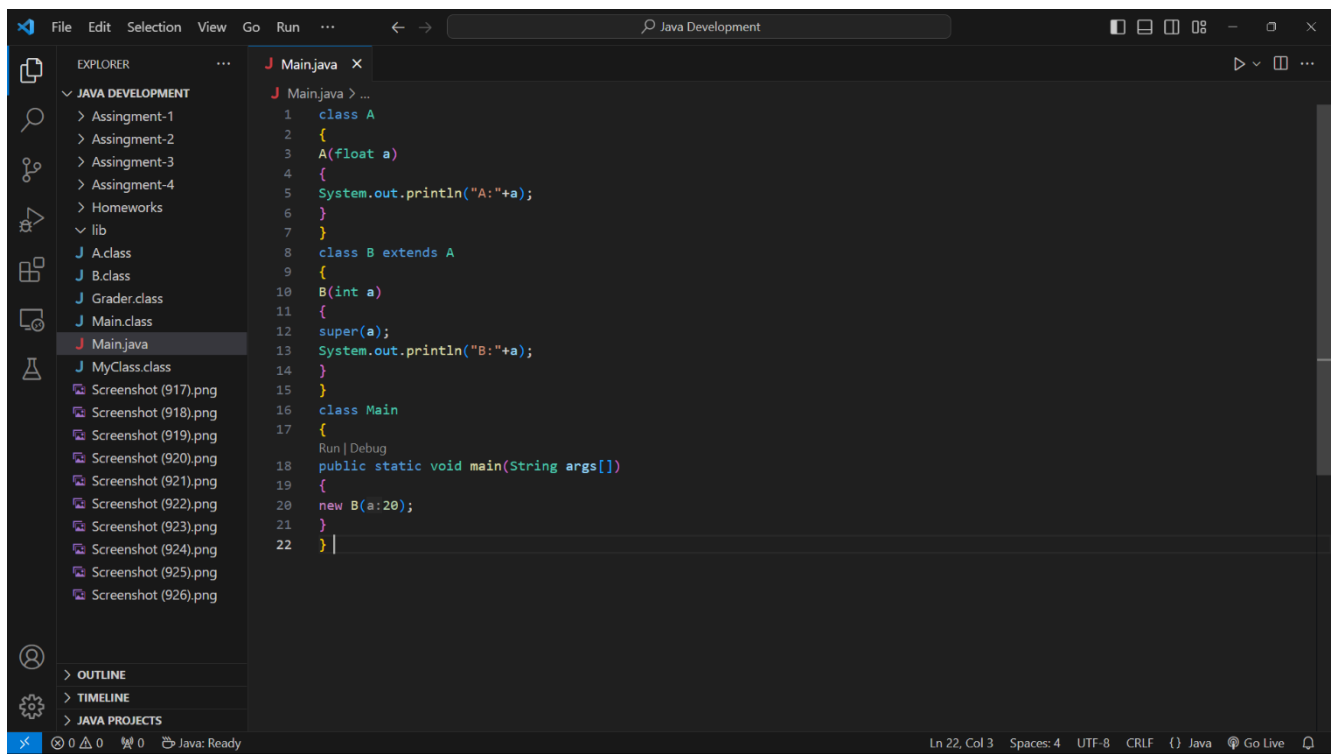


The screenshot shows the same IDE with the `TERMINAL` panel active. It displays the command prompt output of running the Java code:

```
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ; if ($?) { javac Main.java ; if ($?) { java Main }
A is executed.
B is executed.
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ; if ($?) { javac Main.java ; if ($?) { java Main }
A is executed.
B is executed.
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> 
```

The Explorer panel on the left is the same as in the first screenshot. The status bar at the bottom indicates 'Ln 1, Col 1 Spaces: 4 UTF-8 CRLF {} Java Go Live'.

Q4 INPUT: -

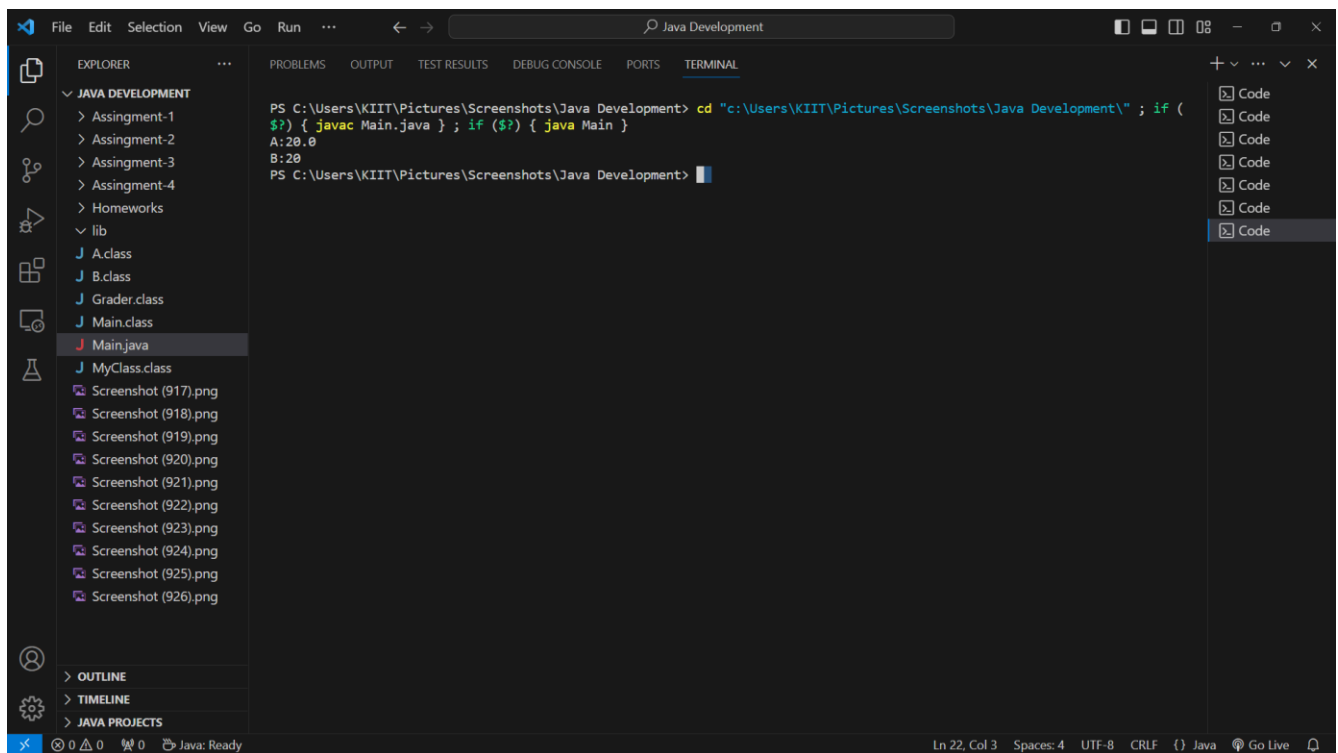


The screenshot shows an IDE with the following code in `Main.java`:

```
1  class A
2  {
3      A(float a)
4      {
5          System.out.println("A:"+a);
6      }
7  }
8  class B extends A
9  {
10     B(int a)
11     {
12         super(a);
13         System.out.println("B:"+a);
14     }
15 }
16 class Main
17 {
18     Run | Debug
19     public static void main(String args[])
20     {
21         new B(a:20);
22     }
```

The Explorer panel on the left shows a project structure with files like `A.class`, `B.class`, `Grader.class`, `Main.class`, `Main.java`, `MyClass.class`, and several screenshot files.

OUTPUT: -



The screenshot shows the IDE's terminal window with the following output:

```
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ; if ($?) { javac Main.java } ; if ($?) { java Main }
A:20.0
B:20
PS C:\Users\KIIT\Pictures\Screenshots\Java Development>
```

The terminal window is titled "TERMINAL" and shows the command prompt output. The Explorer panel on the left is the same as in the previous screenshot.