

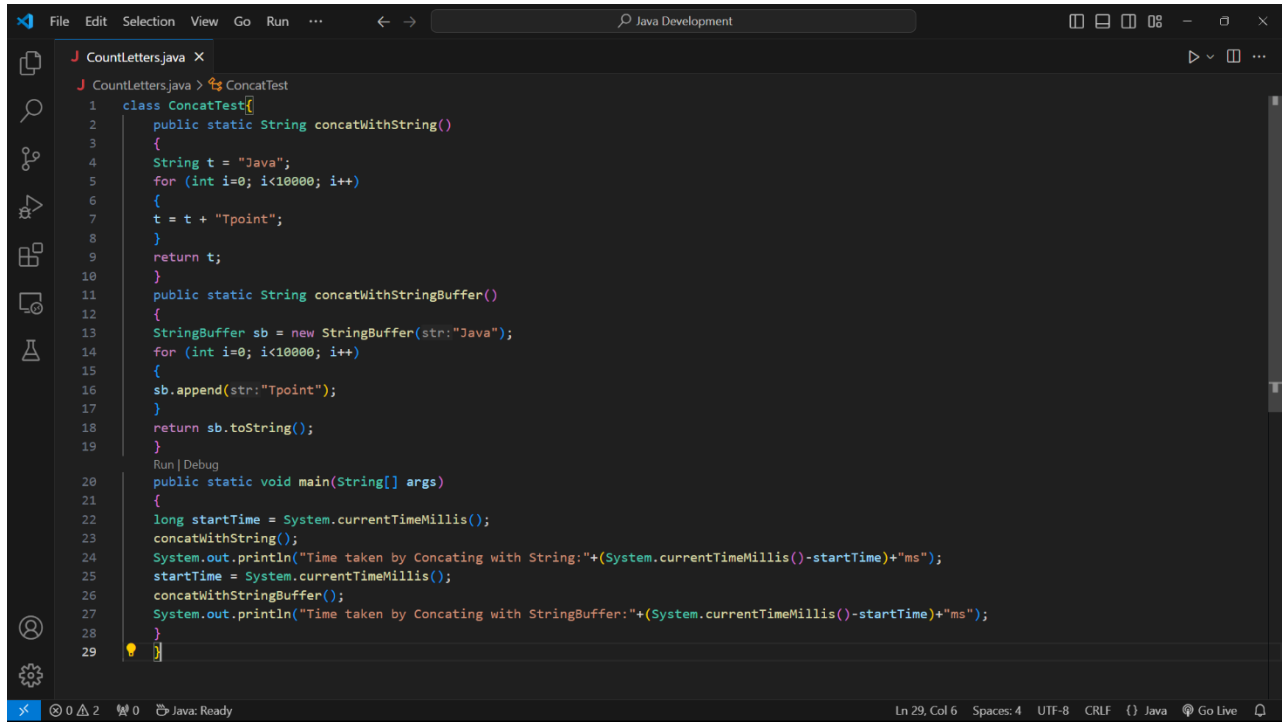
SUBMITTED BY: -

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CSE-37

Q1- . Write a code to validate the performance test of String and String Buffer in Java.

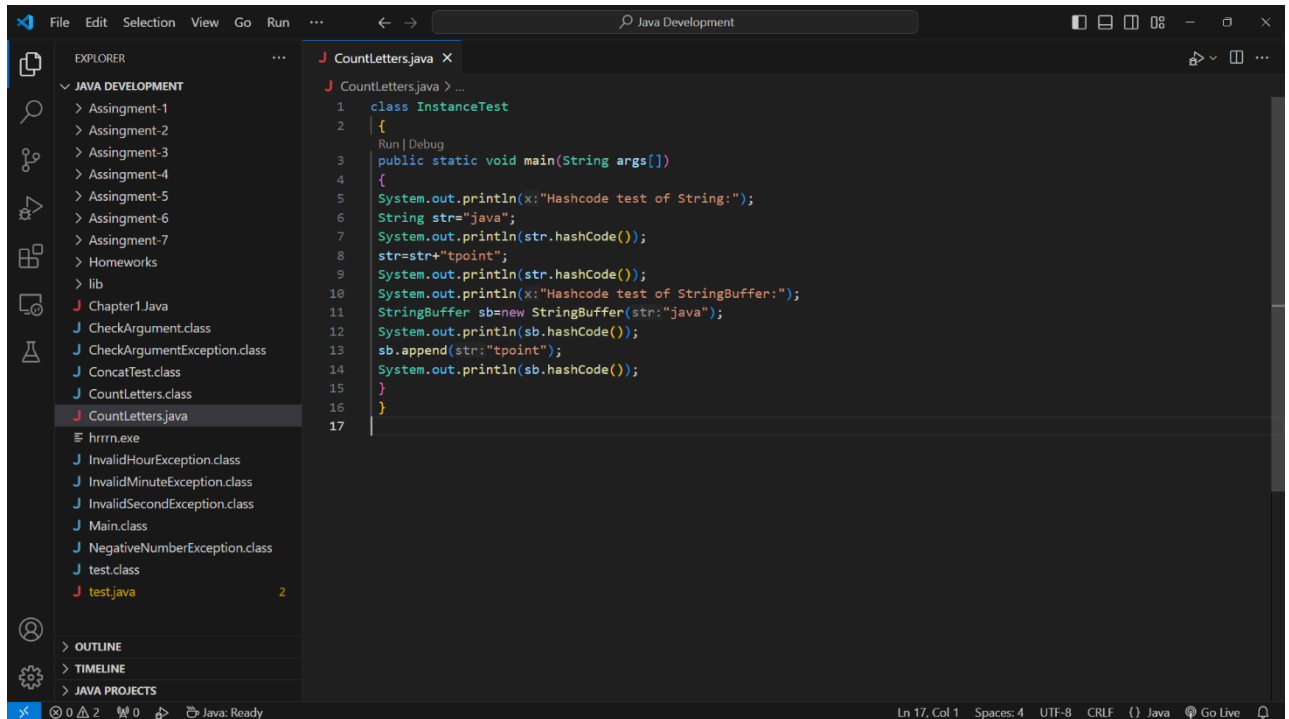


```
File Edit Selection View Go Run ... Java Development
J CountLetters.java X
J CountLetters.java > ConcatTest
1 class ConcatTest{
2     public static String concatWithString()
3     {
4         String t = "Java";
5         for (int i=0; i<10000; i++)
6         {
7             t = t + "Tpoint";
8         }
9         return t;
10    }
11    public static String concatWithStringBuffer()
12    {
13        StringBuffer sb = new StringBuffer(str:"Java");
14        for (int i=0; i<10000; i++)
15        {
16            sb.append(str:"Tpoint");
17        }
18        return sb.toString();
19    }
20    Run | Debug
21    public static void main(String[] args)
22    {
23        long startTime = System.currentTimeMillis();
24        concatWithString();
25        System.out.println("Time taken by Concating with String:"+System.currentTimeMillis()-startTime+"ms");
26        startTime = System.currentTimeMillis();
27        concatWithStringBuffer();
28        System.out.println("Time taken by Concating with StringBuffer:"+System.currentTimeMillis()-startTime+"ms");
29    }
Ln 29, Col 6 Spaces: 4 UTF-8 CRLF {} Java Go Live
```

OUTPUT: -

```
Time taken by Concating with String:100ms
Time taken by Concating with StringBuffer:18ms
PS C:\Users\KIIT\Pictures\Screenshots\Java Development>
```

Q2)-Write an example to show handling of unchecked exception in Java.



The screenshot shows an IDE with a project named 'JAVA DEVELOPMENT'. The Explorer pane on the left lists several files, including 'CountLetters.java' which is selected. The main editor displays the code for 'CountLetters.java'.

```
1 class InstanceTest
2 {
3     Run | Debug
4     public static void main(String args[])
5     {
6         System.out.println(x:"Hashcode test of String:");
7         String str="java";
8         System.out.println(str.hashCode());
9         str=str+"tpoint";
10        System.out.println(str.hashCode());
11        System.out.println(x:"Hashcode test of StringBuffer:");
12        StringBuffer sb=new StringBuffer(str:"java");
13        System.out.println(sb.hashCode());
14        sb.append(str:"tpoint");
15        System.out.println(sb.hashCode());
16    }
17 }
```

OUTPUT: -

```
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> c:; cd 'c:\Users\KIIT\Pictures\Screenshots\Java Development'; & 'C:\Program Files\Java\jdk-18.0.2\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:61611' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\KIIT\AppData\Roaming\Code\User\workspaceStorage\8f8f4b9861c14fde0de1371c967f49f4\redhat.java\jdt_ws\Java Development_59e93592\bin' 'InstanceTest'
Hashcode test of String:
3254818
229541438
Hashcode test of StringBuffer:
821270929
821270929
PS C:\Users\KIIT\Pictures\Screenshots\Java Development>
```