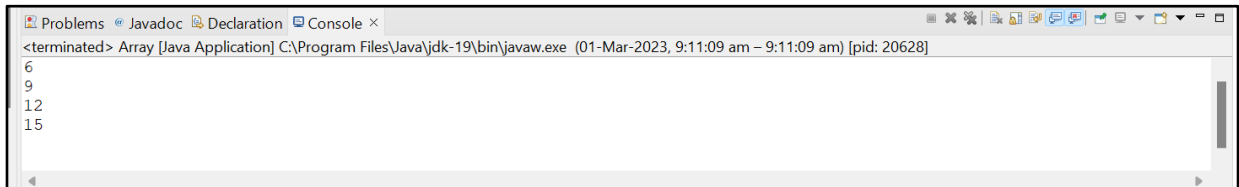


Java Assignment – 04

Topic: Arrays and String functions

1. Create an array of integers and use a for loop to print out each element of the array.

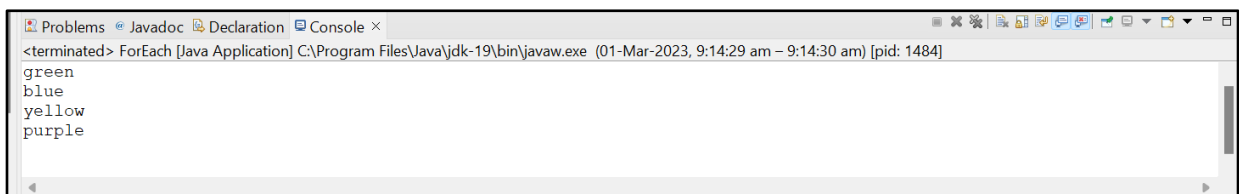
<https://codeshare.io/wnvx4j>



```
Problems Javadoc Declaration Console ×
<terminated> Array [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:11:09 am – 9:11:09 am) [pid: 20628]
6
9
12
15
```

2. Create an array of strings and use a for-each loop to print out each element of the array.

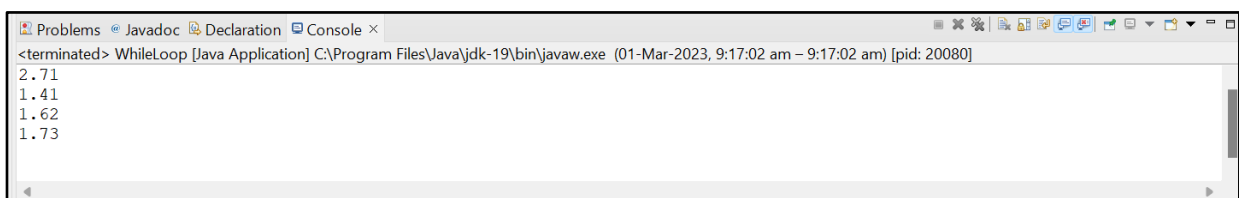
<https://codeshare.io/8pIMrZ>



```
Problems Javadoc Declaration Console ×
<terminated> ForEach [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:14:29 am – 9:14:30 am) [pid: 1484]
green
blue
yellow
purple
```

3. Create an array of doubles and use a while loop to print out each element of the array.

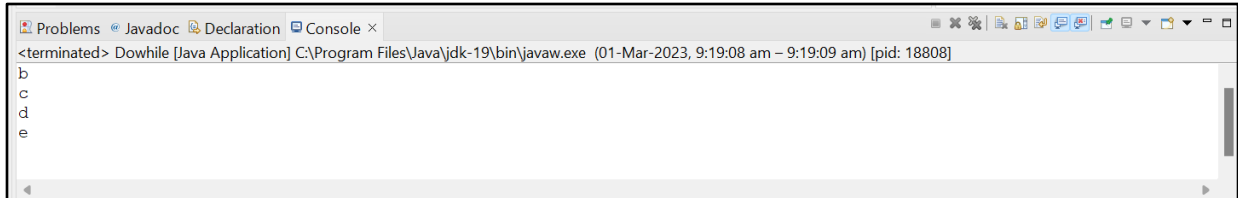
<https://codeshare.io/mpb70X>



```
Problems Javadoc Declaration Console ×
<terminated> WhileLoop [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:17:02 am – 9:17:02 am) [pid: 20080]
2.71
1.41
1.62
1.73
```

4. Create an array of characters and use a do-while loop to print out each element of the array.

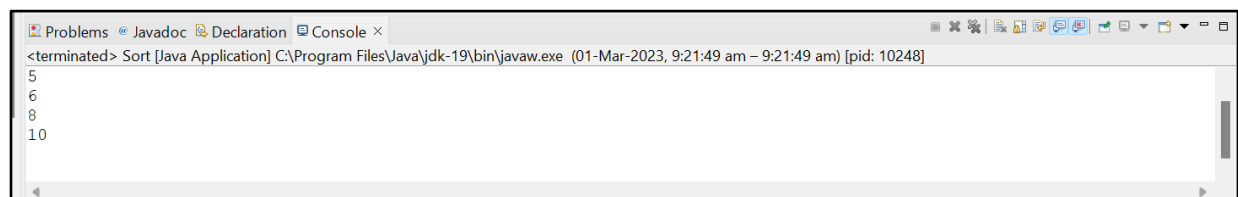
<https://codeshare.io/78mMxE>



```
Problems Javadoc Declaration Console x
<terminated> Dowhile [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:19:08 am – 9:19:09 am) [pid: 18808]
b
c
d
e
```

5. Create an array of integers and use the Arrays class method sort() to sort the array in ascending order.

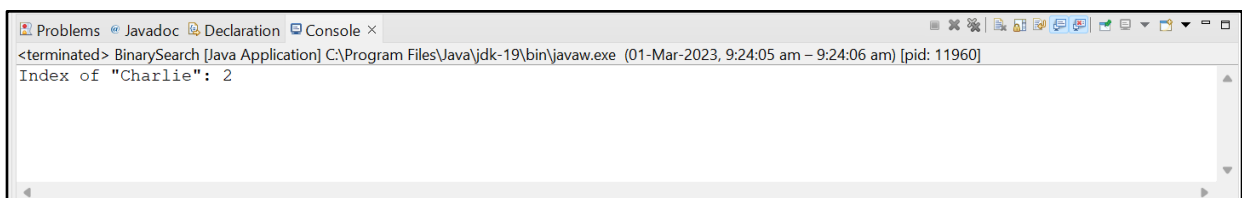
<https://codeshare.io/xv4jgN>



```
Problems Javadoc Declaration Console x
<terminated> Sort [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:21:49 am – 9:21:49 am) [pid: 10248]
5
6
8
10
```

6. Create an array of strings and use the Arrays class method binarySearch() to find the index of a specific string in the array.

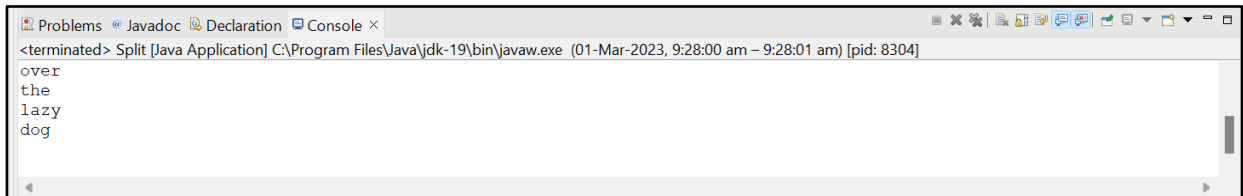
<https://codeshare.io/BA7pgrn>



```
Problems Javadoc Declaration Console x
<terminated> BinarySearch [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:24:05 am – 9:24:06 am) [pid: 11960]
Index of "Charlie": 2
```

7. Create a string and use the String class method `split()` to split the string into an array of substrings.

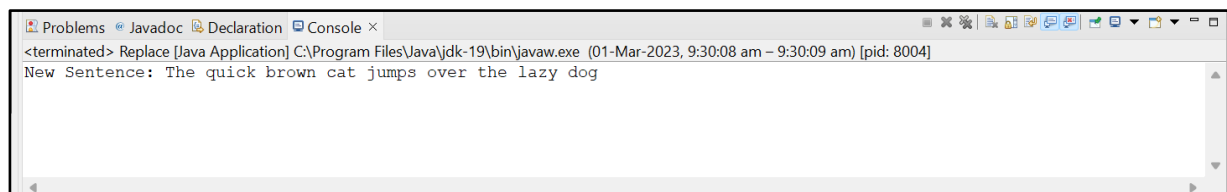
<https://codeshare.io/K8E06P>



```
Problems Javadoc Declaration Console x
<terminated> Split [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:28:00 am - 9:28:01 am) [pid: 8304]
over
the
lazy
dog
```

8. Create a string and use the String class method `replace()` to replace a specific substring in the string with a new substring.

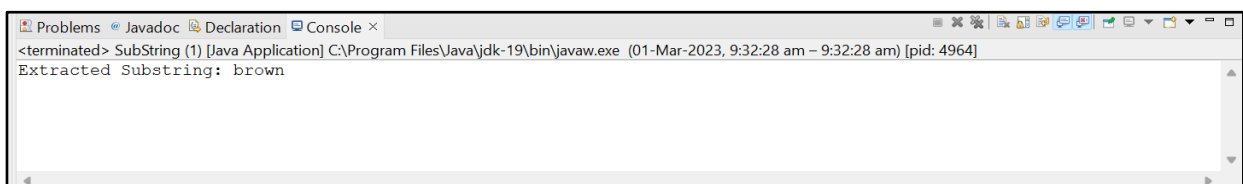
<https://codeshare.io/mpb7LX>



```
Problems Javadoc Declaration Console x
<terminated> Replace [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:30:08 am - 9:30:09 am) [pid: 8004]
New Sentence: The quick brown cat jumps over the lazy dog
```

9. Create a string and use the String class method `substring()` to extract a portion of the string.

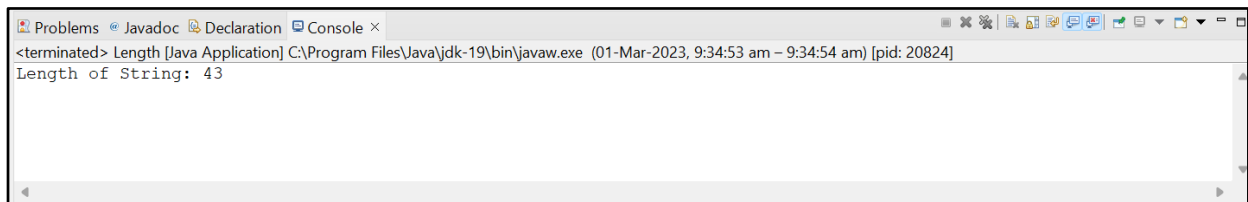
<https://codeshare.io/N3p0Z4>



```
Problems Javadoc Declaration Console x
<terminated> SubString (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:32:28 am - 9:32:28 am) [pid: 4964]
Extracted Substring: brown
```

10. Create a string and use the String class method length() to find the length of the string.

<https://codeshare.io/qPmqXB>



The screenshot shows a Java IDE window with a console tab. The console output is as follows:

```
<terminated> Length [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:34:53 am - 9:34:54 am) [pid: 20824]  
Length of String: 43
```