Assignment:04

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

https://codeshare.io/LwER3b

```
package com.tecnotree.assignment4;
public class Array {
   public static void main(StringExam args[]) {
      int[] num = {1,2,3,4,5};
      int i;
      for(i=0;i<num.length;i++)
            System.out.println(num[i]);
   }
}</pre>
```

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

https://codeshare.io/gL930R

```
package com.tecnotree.assignment4;

public class ArrayString {
    public static void main(String[] args) {
        String sentence = "Virat Kohli has won millions of heart";

        String[] words = sentence.split(" ");

        for (int i = 0; i < words.length; i++) {
            System.out.println(words[i]);
        }
    }
}</pre>
```

```
Virat
Kohli
has
won
millions
of
heart
```

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

https://codeshare.io/MNERbQ

```
package com.tecnotree.assignment4;

public class Double {
    public static void main(String[] args) {
        double[] num = {24.5, 25.0, 26.8, 23.2, 22.7};

        int i = 0;
        while (i < num.length) {
            System.out.println(num[i]);
            i++;
        }
    }
}</pre>
```

Output:

24.5 25.0 26.8 23.2 22.7 4. Create an array of characters and use a do-while loop to print out each element of the array.

https://codeshare.io/Rbvp83

```
package com.tecnotree.assignment4;

public class DoWhile {
    public static void main(String[] args) {
        char[] letters = {'a', 'b', 'c', 'd', 'e'};

    int i = 0;
    do {
        System.out.println(letters[i]);
        i++;
     } while (i < letters.length);
}</pre>
```

Output:

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

https://codeshare.io/LwER3b

```
package com.tecnotree.assignment4;
import java.util.Arrays;
public class ArrayClass {
    public static void main(StringExam[] args) {
        int[] numbers = {9, 3, 6, 1, 8, 4, 7, 2, 5};
        Arrays.sort(numbers);
        for (int i = 0; i < numbers.length; i++) {
            System.out.println(numbers[i]);
        }
    }
}</pre>
```

Output:

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/ZJEODV

```
package com.tecnotree.assignment4;
import java.util.Arrays;
public class Binary {
        public static void main(String[] args) {
            String[] names = {"Virat", "Harsha", "Varsha"};
            Arrays.sort(names);
        int index = Arrays.binarySearch(names, "Varsha");
            System.out.println("Index of Varsha in the array: " + index);
        }
}
```

```
Index of Varsha in the array: 1
```

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

https://codeshare.io/9OLE1X

Output:

apple banana orange grape mango 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/K8ERZo

```
Original message: Hello, world!
New message: Hello, Java!
```

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

https://codeshare.io/dwQn6M

```
Original message: Hello, world!
Extracted portion: Hello
```

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

https://codeshare.io/vwjOPL

```
package com.tecnotree.assignment4;

public class Length {
    public static void main(String[] args) {
        String message = "Hello, world!";

        int length = message.length();

        System.out.println("The length of the string is: " + length);
    }
}
```

Output:

```
The length of the string is: 13
```

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