# Assignment-4

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

Code:

#### Question1.java

```
package com.tecnotree.Assignment4;
 2 import java.util.Scanner;
 4 public class Question1 {
      //Printing Array Elements
 60
       public static void main(String[] args) {
 7
           int[] arr = new int[10];
 8
           Scanner in = new Scanner(System.in);
 9
          System.out.println("Enter Elements:");
10
          for(int i =0;i<arr.length;i++)</pre>
               arr[i] = in.nextInt();
11
         System.out.println("Array Elements are:");
12
13
          for(int i =0;i<arr.length;i++)</pre>
14
               System.out.println(arr[i]);
15
          in.close();
16
17
18 }
```

Codeshare Link: <a href="https://codeshare.io/OdEpwW">https://codeshare.io/OdEpwW</a>

## Output:

```
Enter Elements:
10 20 30 40 50 60 70 80 90 100
Array Elements are:
10 20 30 40 50 60 70 80 90 100
```

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

Code:

#### Question2.java

```
package com.tecnotree.Assignment4;
 2
 3
   import java.util.Scanner;
 4
 5 public class Question2 {
        //Printing Array of Strings
 7⊝
            public static void main(String[] args) {
 8
                String[] names = new String[10];
 9
                Scanner in = new Scanner(System.in);
10
                System.out.println("Enter Names:");
11
                for(int i =0;i<names.length;i++)</pre>
12
                    names[i] = in.nextLine();
13
                System.out.println("Names are:");
14
                for(String name:names)
15
                    System.out.println(name);
16
                in.close();
17
            }
18 }
```

Codeshare Link: https://codeshare.io/eV6174

#### Output:

```
Enter Names:
Fawaz
Fawaz
Fawaz
Fawaz
Fawaz
Names are:
Fawaz Fawaz Fawaz Fawaz Fawaz
```

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

Code:

#### Question3.java

```
package com.tecnotree.Assignment4;
 3 import java.util.Scanner;
5 public class Question3 {
      //double array and while loop
           public static void main(String[] args) {
70
8
                Scanner in = new Scanner(System.in);
9
                double[] arr = new double[10];
10
               int counter = arr.length-1;
11
               int i =0;;
12
               System.out.println("Enter Elements:");
13
               for(i =0;i<arr.length;i++)</pre>
14
                    arr[i] = in.nextDouble();
15
               i = 0;
16
               System.out.println("Array Elements are:");
17
               while(counter>0) {
18
                   System.out.println(arr[i]);
19
                   i++;
20
                   counter--;
21
                }
22
               in.close();
23
           }
24 }
```

Codeshare Link: <a href="https://codeshare.io/km810Y">https://codeshare.io/km810Y</a>

#### Output:

```
Enter Elements:
0.223 32.234 2342.232 22.32 23.32
Array Elements are:
0.223
32.234
2342.232
22.32
```

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

Code:

## Question4.java

```
package com.tecnotree.Assignment4;
3 public class Question4 {
     public static void main(String[] args) {
5⊝
           char[] name = new char[6];
7
           name[0] = 'M';
          name[1] = 'Y';
          name[2] = 'S';
          name[3] = '0';
10
           name[4] = 'R';
11
12
           name[5] = 'E';
13
          int i=0;
14
15
16
           do {
17
               System.out.println(name[i]);
18
19
          }while(i<name.length);</pre>
20
      }
21
22 }
```

Codeshare Link: https://codeshare.io/yo0vkv

#### Output:

M Y S O R E

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

Code:

### Question5.java

```
package com.tecnotree.Assignment4;
 3 import java.util.Arrays;
 5 public class Question5 {
70
       public static void main(String[] args) {
           int[] array = {40,20,70,80,50};
9
           Arrays.sort(array);
10
           System.out.println(Arrays.toString(array));
11
           System.out.println();
12
       }
13
14 }
```

Codeshare Link: https://codeshare.io/VZEMb8

#### Output:

```
[20, 40, 50, 70, 80]
```

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

#### Code:

## Question6.java

```
1 package com.tecnotree.Assignment4;
 3 import java.util.Arrays;
 4
 5 public class Question6 {
 6
 7⊖
      public static void main(String[] args) {
 8
           int[] num = {1,2,3,4,56,6};
 9
           int index = Arrays.binarySearch(num, 56);
10
           System.out.println(index);
11
12
      }
13
14 }
15
```

Codeshare Link: https://codeshare.io/WdEMo3

#### Output:

```
4
```

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

Code:

#### Question7.java

```
package com.tecnotree.Assignment4;

public class Question7 {

public static void main(String[] args) {
    String name = "Mohammed-Fawaz";
    String[] split = name.split("-", 8);
    for(String x:split) {
        System.out.println(x);
    }
}
```

Codeshare Link: <a href="https://codeshare.io/zyA1Qk">https://codeshare.io/zyA1Qk</a>

#### Output:

Mohammed

Fawaz

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

Code:

Quesion8.java

```
package com.tecnotree.Assignment4;

public class Question8 {

public static void main(String[] args) {
    String name = "Mohammed Fawaz";
    System.out.println(name.replace("Moha", "ABc"));

}

10
11 }
```

Codeshare Link: <a href="https://codeshare.io/km81j0">https://codeshare.io/km81j0</a>

#### Output:

```
ABcmmed Fawaz
```

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

Code:

## Question9.java

```
package com.tecnotree.Assignment4;

public class Question9 {

public static void main(String[] args) {
    String name = "Mohammed Fawaz";
    System.out.println(name.substring(7));

}

}
```

Codeshare Link: https://codeshare.io/j0d1yK

#### Output:

```
d Fawaz
```

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

Code:

## Question10.java

```
package com.tecnotree.Assignment4;

public class Question10 {

public static void main(String[] args) {
    String name = "Mohammed Fawaz";
    System.out.println(name.length());
}

public static void main(String[] args) {
    String name = "Mohammed Fawaz";
    System.out.println(name.length());
}
```

Codeshare Link: <a href="https://codeshare.io/1Y84gn">https://codeshare.io/1Y84gn</a>

Output:

14