B.Hanumanthu-ISTE60

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

```
import java.util.Scanner;
public class Array{
   public static void main(String args[]){
      Scanner s = new Scanner(System.in);
System.out.print("Enter the Size of Array: ");
      int n = s.nextInt();
      int arr[] = new int[n];
System.out.println("Enter "+n+" elements: ");
      for(int i = 0 ; i< n; i++){
arr[i] = s.nextInt();
      }
System.out.println("Given array elements: ");
      for(int i = 0 ; i<n;i++){
System.out.print(arr[i]+" ");
      }
   }
}
```

```
D:\Java>javac Array.java

D:\Java>java Array
Enter the Size of Array: 5
Enter 5 elements:
3 2 1 2 3
Given array elements:
3 2 1 2 3
D:\Java>
```

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

```
import java.util.Scanner;

public class StrArray {

   public static void main(String args[]){

      Scanner s = new Scanner(System.in);

System.out.print("Enter the Size of String Array: ");

      int n = s.nextInt();

      String arr[] = new String[n];

System.out.println("Enter "+n+" elements: ");

      for(int i = 0 ; i< n; i++){

arr[i] = s.next();

      }

System.out.println("Given array elements: ");

      for(String s1: arr){

System.out.print(s1+" ");

      }

   }


}
```

```
D:\Java>javac StrArray.java

D:\Java>java StrArray
Enter the Size of String Array: 4
Enter 4 elements:
welcome to java programming
Given array elements:
welcome to java programming
D:\Java>
```

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

```
import java.util.Scanner;
public class DoubleArray {
   public static void main(String args[]){
      Scanner s = new Scanner(System.in);
System.out.print("Enter the Size of Array: ");
      int n = s.nextInt();
      double arr[] = new double[n];
System.out.println("Enter "+n+" elements: ");
      int i;
      for(i = 0 ; i< n; i++){
arr[i] = s.nextDouble();
      }
System.out.println("Given array elements: ");
i=0;
      while(i<n){
System.out.print(arr[i]+" ");
i++;
      }
   }

}
```

```
D:\Java>javac DoubleArray.java

D:\Java>java DoubleArray
Enter the Size of Array: 4
Enter 4 elements:
1.2 1.3 1.4 1.5
Given array elements:
1.2 1.3 1.4 1.5
D:\Java>
```

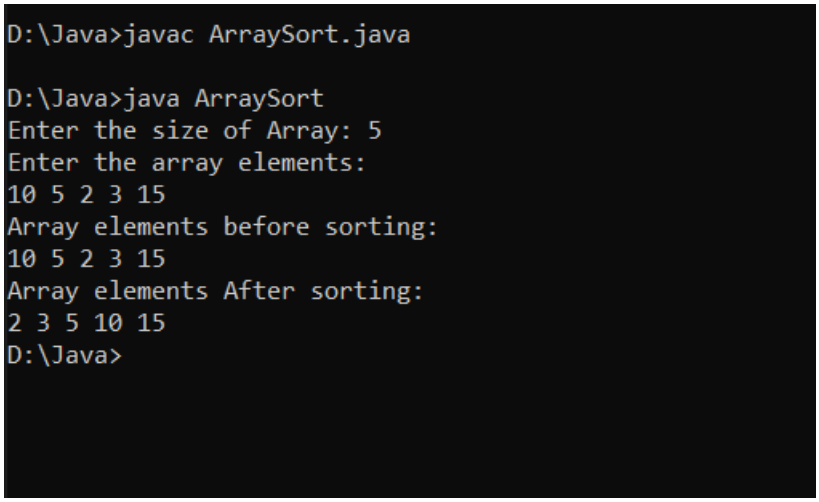
4.Create an array of characters and use a do-while loop to print out each element of the array.

```
public class CharArray {
   public static void main(String args[]){
      char arr[] = { 'h','e','l','l','o'};
      int i =0;
      do{
System.out.print(arr[i]+" ");
i++;
      }while(i<arr.length);
   }

}
```

```
D:\Java>javac CharArray.java

D:\Java>java CharArray
h e l l o
D:\Java>
```

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

```
import java.util.Scanner;
import java.util.Arrays;
public class ArraySort {
   public static void main(String args[]){
      Scanner s = new Scanner(System.in);
System.out.print("Enter the size of Array: ");
      int n =s.nextInt();
System.out.println("Enter the array elements: ");
      int arr[] = new int[n];
      for(int i = 0;i<n;i++){
arr[i]=s.nextInt();
      }
System.out.println("Array elements before sorting: ");
      for(int x: arr){
System.out.print(x+" ");
      }
System.out.println();
Arrays.sort(arr);
System.out.println("Array elements After sorting: ");
      for(int x: arr){
System.out.print(x+" ");
      }
   }

}
```



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

```
import java.util.Arrays;

import java.util.Scanner;

public class ArrayBin {

   public static void main(String args[]){

      Scanner s = new Scanner(System.in);

System.out.print("Enter the Size of String Array: ");

      int n = s.nextInt();
```

```
        char arr[] = new char[n];
System.out.println("Enter "+n+" elements: ");
        for(int i = 0 ; i< n; i++){
arr[i] = s.next().charAt(0);



        }
System.out.println("Enter the key: ");
        char key = s.next().charAt(0);
System.out.println("Given array elements: ");
        for(char s1: arr){
System.out.print(s1+" ");
        }
System.out.println();
System.out.println("Given key found at index: "+Arrays.binarySearch(arr,
key));



    }



}
```

```
D:\Java>javac ArrayBin.java

D:\Java>java ArrayBin
Enter the Size of String Array: 4
Enter 4 elements:
1 11 6 2
Enter the key:
6
Given array elements:
1 1 6 2
Given key found at index: 2

D:\Java>
```

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

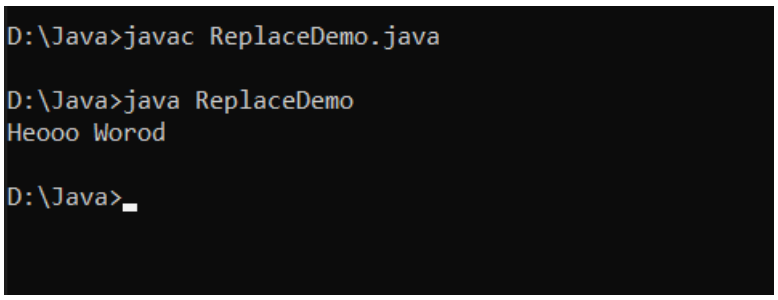
```
import java.util.Scanner;

public class SplitDemo {

   public static void main(String args[]){

      Scanner s = new Scanner(System.in);

System.out.println("Enter the String: ");

      String str = s.nextLine();

      String arr[] = str.split(" "); //" " as regex

      for(String s1: arr){

System.out.println(s1+" ");
```

```
    }

}

}
```

```
D:\Java>javac SplitDemo.java

D:\Java>java SplitDemo
Enter the String:
welcome to java
welcome
to
java

D:\Java>
```

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

```
public class ReplaceDemo {

   public static void main(String args[]){

      String str = "Hello World";

      String str1 = str.replace('l','o');

System.out.println(str1);

   }



}
```



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

```
import java.util.Scanner;

public class SubString {

   public static void main(String args[]){

      Scanner s = new Scanner(System.in);

System.out.println("Enter the Input String: ");

      String str = s.nextLine();

      String str1 = str.substring(2);

System.out.println(str1);
```

```
    }


}
```

```
D:\Java>javac SubString.java

D:\Java>java SubString
Enter the Input String:
Welcome
lcome

D:\Java>
```

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

```
import java.util.Scanner;


public class LengthDemo {

    public static void main(String args[]){

        Scanner s = new Scanner(System.in);

System.out.println("Enter the String: ");
```

```
        String str = s.nextLine();

        int length = str.length();

System.out.println("Length of the given Stirng: "+length);

    }



}
```

```
D:\Java>javac LengthDemo.java

D:\Java>java LengthDemo
Enter the String:
Inheritance
Length of the given Stirng: 11

D:\Java>
```