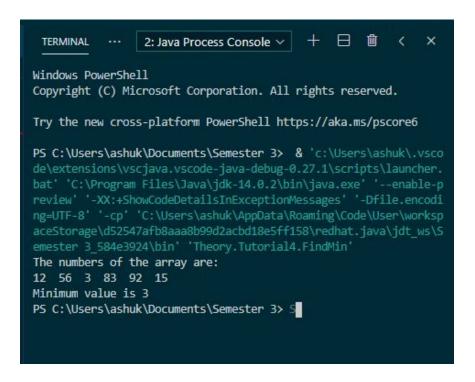
# **Tutorial Assignment**

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## Passing Array In Functions

```
public class FindMin {
  public static void main(String[] args) {
     int arr[] = \{12, 56, 3, 83, 92, 15\};
     int min = min(arr);
     System.out.println ("The numbers of the array are:");
     for (int x:arr)
     {
        System.out.print(x + "");
     System.out.println ("\nMinimum value is " + min);
  public static int min (int arr[])
     int min = arr[0];
     for (int x:arr)
       if (x < min)
          min = x;
     }
     return min;
```



### Using 'For-Each'

```
public class ForEachDemo {
   public static void main(String[] args) {
     int arr[] = {21, 44, 7, 39};
     int sum = 0;

     System.out.println ("The numbers of the array are:");
     for (int x:arr)
     {
          System.out.print(x + " ");
          sum += x;
     }

     System.out.println ("\nSum is " + sum);
    }
}
```

```
2: Java Process Console V
 TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\ashuk\Documents\Semester 3> & 'c:\Users\ashuk\.vsco
de\extensions\vscjava.vscode-java-debug-0.27.1\scripts\launcher.
bat' 'C:\Program Files\Java\jdk-14.0.2\bin\java.exe' '--enable-p
review' '-XX:+ShowCodeDetailsInExceptionMessages' '-Dfile.encodi
ng=UTF-8' '-cp' 'C:\Users\ashuk\AppData\Roaming\Code\User\worksp
aceStorage\d52547afb8aaa8b99d2acbd18e5ff158\redhat.java\jdt_ws\S
emester 3_584e3924\bin' 'Theory.Tutorial4.ForEachDemo'
The numbers of the array are:
21 44 7 39
Sum is 111
PS C:\Users\ashuk\Documents\Semester 3>
```

## Transposing a Matrix

```
public class Transpose { 
 public static void main(String[] args) { 
 int arr[][] = \{\{1, 2, 3\},
 \{4, 5, 6\},
 \{7, 8, 9\},
 \{10, 11, 12\}\};
 System.out.println("Array before transpose"); 
 for (int i = 0; i < 4; i++) 
 { 
 for (int j = 0; j < 3; j++)
```

```
{
        System.out.print(arr[i][j] + " ");
     }
     System.out.println();
  }
  transpose(arr);
}
static void transpose (int arr[] [])
{
  int x = arr.length, y = arr[0].length;
  int trans [][] = new int [y][x];
  System.out.println("\nArray after transpose");
  for (int i = 0; i < y; i++)
  {
     for (int j = 0; j < x; j++)
        trans [i][j] = arr [j][i];
        System.out.print(arr [j][i] + " ");
     }
     System.out.println();
  }
}
```

}

