



CODING WORKSHOPS IN JAVA PROGRAMMING



CodingWorkShop1 > 🔥 Pro1.java > 🛠️ Pro1 > ⚘ getSum(int, int)

```
1 package CodingWorkShop1;
2
3 public class Pro1 {
4
5     //Function getSum to get Sum of numbers
6
7     public static int getSum(int num1, int num2){
8         // int sum = 0;
9         // sum = num1 + num2;
10        return num1 + num2;
11    }
12
13    Run | Debug
14    public static void main(String[] args){
15
16        System.out.println("The sum of two numbers : " +getSum(num1:10,
17        num2:20));
18    }
19}
```

PROBLEMS OUTPUT TERMINAL ...

Run: Pro1 + v | [] X

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'CodingWorkShop1.Pro1'
The sum of two numbers : 30
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

```
CodingWorkShop1 > 🔥 Pro2.java > 🏃 Pro2
1 package CodingWorkShop1;
2
3 public class Pro2 {
4
5     //Function swapNumbers to swap two variable value
6
7     public static void swapNumbers(int num1 ,int num2){
8         int temporary_variable;    // It stores the temporary value
9
10        temporary_variable = num1;      // temp = 10
11        num1 = num2;                  // num1 = 20
12        num2 = temporary_variable;    // num2 = 10
13
14        System.out.println("The swap result of numbers is : " +num1 +" "+ num2);
15    }
16
17    Run | Debug
18    public static void main(String[] args) {
19
20        System.out.println("Before swaping :");
21        int num1 = 10;
22        System.out.println("The number 1 : "+num1);
23        int num2 = 20;
24        System.out.println("The number 2 : "+num2);
25        System.out.println();
26
27        System.out.println("After Swaping :");
28        swapNumbers(num1 , num2);
29    }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Run: Pro2 + ⌂ ⌂ ...

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\Ap pData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Al gorithm365_c0509dd3\bin' 'CodingworkShop1.Pro2'
```

```
Before swaping :
The number 1 : 10
The number 2 : 20
```

```
After Swaping :
The swap result of numbers is : 20 10
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

CodingWorkShop1 > 🔥 Pro3.java > 🏷️ Pro3

```
1 package CodingWorkShop1;
2
3 public class Pro3 {
4     public static boolean isEven(int number){
5         if (number%2 == 0){      //if the number divide by 2 it should give remainder as 0
6             THEN it is considered as even
7             return true;
8         }
9         else{
10            return false;        // else not an even number
11        }
12    }
13
14    Run | Debug
15    public static void main(String[] args) {
16        int number = 10;
17
18        System.out.println("The number is : " +number);
19
20        System.out.println();
21
22        System.out.println("Is the given number is EVEN or not : " +isEven(number));
23    }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro3 + ×

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'CodingWorkShop1.Pro3'
```

```
The number is : 10
```

```
Is the given number is EVEN or not : true
```

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

CodingWorkShop1 > Pro4.java > Pro4

```
1 package CodingWorkShop1;
2
3 public class Pro4 {
4
5     //Function isDigit to return if it is a digit
6     public static boolean isDigit(String s){
7
8         for(int index = 0; index <= s.length()-1; index++){
9             if (s.charAt(index) < '0' || s.charAt(index) > '9'){
10                 return false;    //finds a non digit -> stop and return
11                 false
12             }
13         }
14     }
15
16     Run | Debug
17     public static void main(String[] args) {
18         System.out.println(isDigit(s:"1234")); //true
19         System.out.println(isDigit(s:"1a23")); //false
20     }
21 }
```

PROBLEMS OUTPUT TERMINAL ...

Run: Pro4 + ▾ ... |

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'CodingWorkShop1.Pro4'
true
false
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

CodingWorkShop1 > 🔥 Pro5.java > 🛡️ Pro5

```
1 package CodingWorkShop1;
2
3 import java.util.Scanner;
4
5 public class Pro5 {
6
7     //Function simpleGreetings to accept name as input
8     // and print simple greeting "Namaskara Karnataka" name
9
10    public static void simpleGreeting(String name){
11
12        System.out.println("The name Entered by the User : " +name);
13
14    }
15
16    Run | Debug
17    public static void main(String[] args) {
18        Scanner obj = new Scanner(System.in);
19
20        System.out.print("Enter the name : ");
21        String name = obj.nextLine();
22
23        System.out.println();
24
25        simpleGreeting(name);
26
27        obj.close();
28    }
29
30 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

✖ Run: Pro5 + ⌂ ⌂ ... ⌂ ×

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-2
1.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'CodingWorkShop1.Pro5'
Enter the name : Ananya
```

```
The name Entered by the User : Ananya
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> ⌂
```

CodingWorkShop1 > Pro6.java > Pro6 > main(String[])

```
3 import java.util.Scanner;
4
5 public class Pro6 {
6
7     public static int ASCII(char ch){
8         int conversion = ch; //When convert character into Integer it
9         will give you ASCII value
10
11     return conversion;
12 }
13
14 Run | Debug
15
16 public static void main(String[] args){
17     Scanner obj = new Scanner(System.in);
18     System.out.print("Enter teh Charcter : ");
19     char ch = obj.next().charAt(index:0);
20
21     System.out.println("The ASCII value of the character : " +ASCII(ch));
22     obj.close();
23 }
```

```
PROBLEMS OUTPUT TERMINAL ... Run: Pro6 + × [ ] X

PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'CodingWorkShop1.Pro6'
Enter teh Charcter : A
The ASCII value of the character : 65
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

```
CodingWorkshop2 >  Pro7.java > ...
1 //Function to getStringLength to get string length
2 import java.util.Scanner;
3
4 public class Pro7 {
5     public static int getStringLength(String Str){
6         int count = 0;
7         int n = Str.length();
8         for(int index = 0; index < n; index++){
9             if (Str.charAt(index) != (n-1)){
10                 count++;
11             }
12         }
13     return count;
14 }
15
Run | Debug
16 public static void main(String[] args) {
17     Scanner obj = new Scanner(System.in);
18
19     System.out.println("Enter the string :");
20     String Str = obj.nextLine();
21
22     System.out.println("The length of the given string: " +getStringLength(Str));
23
24     obj.close();
25
26 }
27
28 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
am Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java
\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro7'
Enter the string :
Ananya
6
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> []
```

CodingWorkshop2 > Pro8.java > Pro8 > getNumberOfVowels(String)

```
1 //Function to Count Vowels getCountOfVowels for a given String
2 import java.util.Scanner;
3
4
5 public class Pro8 {
6
7     public static int getCountOfVowels(String Str){
8         char[] vowels = {'A','a','e','E','i','I','o','O','u','U'};
9
10        int count = 0;
11
12        for(int i=0; i<Str.length(); i++){
13            for(int j=0; j<vowels.length; j++){
14                if(Str.charAt(i) == vowels[j]){
15                    count++;
16                }
17            }
18        }
19        return count;
20    }
21
22
23    Run | Debug
24
25    public static void main(String[] args) {
26        Scanner obj = new Scanner(System.in);
27
28        System.out.println("Enter the String :");
29        String Str = obj.nextLine();
30
31        System.out.println("The count of Vowels in the given String :" +getCountOfVowels(Str));
32
33        obj.close();
34    }
35}
```

[PROBLEMS](#) [OUTPUT](#) [DEBUG CONSOLE](#) [TERMINAL](#) [PORTS](#)

A set of small, light-gray navigation icons typically found in Beamer presentations, including symbols for back, forward, search, and table of contents.

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro8'
Enter the String :
Ananya
The count of Vowels in the given String :3
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro8'
Enter the String :
Jyoth
The count of Vowels in the given String :1
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> ]
```

```
CodingWorkshop2 > Pro9.java > Pro9 > main(String[])
1 //Function to reverse the String reverseString
2
3 import java.util.Scanner;
4
5 public class Pro9 {
6
7     public static void reverseString(String Str){
8
9         for(int i = Str.length()-1; i>=0 ; i--){
10            System.out.print(Str.charAt(i));
11        }
12        System.out.println();
13    }
14
15    public static void main(String[] args){
16        Scanner obj = new Scanner(System.in);
17
18        System.out.println("Enter the String :");
19        String Str = obj.nextLine();
20
21        System.out.print("The reverse of the String : ");
22        reverseString(Str);
23
24        obj.close();
25    }
26
27 }
```



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro9 + ×

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365c0509dd3\bin' 'Pro9'
Enter the String :
Ananya
```

```
The reverse of the String : aynanA
```

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

CodingWorkshop3 > 🔥 Pro10.java > 📁 Pro10 > ⚙️ getSum(int[])

```
1 //Function to get Sum of all elements in the integer array getSum
2
3 public class Pro10 {
4     public static int getSum(int[] array){
5         int sum = 0;
6
7         for(int i = 0; i<array.length; i++){
8             sum = sum + array[i];
9         }
10        return sum;
11    }
12
13    public static void main(String[] args) {
14        int[] array = {1,2,3,4,5};
15
16        System.out.println("Sum of array of Integer :" +getSum(array));
17    }
18}
19
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Run: Pro10

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> cd 'c:\Users\ANANYA\OneDrive\Desktop\Algorithm365'; & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro10'
```

```
Sum of array of Integer :15
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

CodingWorkshop3 > 🔥 Pro11.java > 🛡️ Pro11 > 📂 main(String[])

```
1 //Function to find given string is Palindrom
2
3 public class Pro11 {
4
5     public static String isPalindrom(String name){
6         String reverse = "";
7
8         for(int i=0; i<name.length(); i++){
9             reverse = name.charAt(i) + reverse;
10        }
11        return reverse;
12    }
13
14    public static void main(String[] args) {
15        String name = "Ananya";
16        boolean result = true;
17
18        if(isPalindrom(name).equals(name)){
19            result = true;
20        }
21        else{
22            result = false;
23        }
24
25        System.out.println(result);
26    }
}
```



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro11 + ⌂ ⌂ ... [] ×

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro11'
false
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

CodingWorkshop3 > Pro12.java > ...

```
1 //Function to print max and min value from an array , printMaxMin
2
3
4 public class Pro12 {
5
6     public static void printMaxMin(int[] arr){
7         int min = arr[0];
8         int max = arr[0];
9
10        for(int i = 0; i<arr.length-1 ; i++){
11            if(min > arr[i]){
12                min = arr[i];
13            }
14            if(max < arr[i]){
15                max = arr[i];
16            }
17        }
18
19        System.out.println("The minimum value is : " +min);
20        System.out.println("The maximum value is :" +max);
21    }
22    Run | Debug
23    public static void main(String[] args) {
24        int[] arr = {1,5,3,7,8};
25        printMaxMin(arr);
26    }
27 }
28 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro12 + ×

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro12'
The minimum value is : 1
The maximum value is :7
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

CodingWorkshop3 > Pro11.java > Pro11

```
1 //Function to find given string is Palindrom
2
3 public class Pro11 {
4
5     public static String isPalindrom(String name){
6         String reverse = "";
7
8         for(int i=0; i<name.length(); i++){
9             reverse = name.charAt(i) + reverse;
10        }
11        return reverse;
12    }
13    Run | Debug
14    public static void main(String[] args) {
15        String name = "Ananya";
16        boolean result = true;
17
18        if(isPalindrom(name).equals(name)){
19            result = true;
20        }
21        else{
22            result = false;
23        }
24
25        if(result == true){
26            System.out.println("String is Palindrom");
27        }
28        else{
29            System.out.println("String is not a Palindrom");
30        }
31    }
32 }
```



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro11 + ... [] X

PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>

PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> c:; cd 'c:\Users\ANANYA\OneDrive\Desktop\Algorithm365'; & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessage' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat\java\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro11'

String is not a Palindrom

PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>



CodingWorkshop3 > Pro13.java > Pro13

```
1 //Function to search in an sorted integer array
2
3 public class Pro13 {
4     public static int search(int[] arr, int key){
5         int low = 0;
6         int high = arr.length - 1;
7
8         while(low <= high){
9             int mid = (low + high) / 2;
10
11             if(arr[mid] == key){
12                 return mid;
13             }
14             if(arr[mid] < key){
15                 low = mid +1;
16             }
17             else{
18                 high = mid - 1;
19             }
20         }
21         return -1;
22     }
23
24     Run | Debug
25     public static void main(String[] args) {
26         int[] arr = {1,3,2,5,6,4,11,15,7};
27         int key = 11;
28
29         int index = search(arr, key);
30
31         if(index != -1){
32             System.out.println("Key found");
33         }
34         else{
35             System.out.println("Key not found");
36         }
37     }
38 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro13 + ×

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro13'
Key found
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

CodingWorkshop3 > Pro14.java > ...

```
1 //Function to merge two arrays and return combined output in first array
2
3 public class Pro14 {
4
5     // Merge arr2 into arr1 (just append at the end)
6     public static void merge(int[] arr1, int m, int[] arr2) {
7         int n = arr2.length;
8
9         // Start filling from index m
10        for (int i = 0; i < n; i++) {
11            arr1[m + i] = arr2[i];
12        }
13    }
14
15    Run | Debug
16    public static void main(String[] args) {
17        int[] arr1 = {1, 3, 2, 0, 0, 0}; // first 3 are valid, rest empty
18        int[] arr2 = {4, 5, 6};
19
20        merge(arr1, m:3, arr2); // m=3 (valid elements in arr1)
21
22        System.out.print("Merged Array: ");
23        for (int i = 0; i < arr1.length; i++) {
24            System.out.print(arr1[i] + " ");
25        }
26    }
27
28 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro14 + ×

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro14'
Merged Array: 1 3 2 4 5 6
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

CodingWorshop4 > 🔥 Pro15.java > 🛒 Pro15 > ⚙️ getSecondLargest(int[])

```
1 //Function get second largest element in an integer array getSecondLargest
2
3 public class Pro15{
4
5     public static int getSecondLargest(int[] arr){
6
7         if(arr.length == 0){
8             return -1;
9         }
10        int max = arr[0];
11        int secondmax = arr[0];
12
13        for(int i=1; i<arr.length; i++){
14            if(max < arr[i]){
15                secondmax = max;
16                max = arr[i];
17            }
18            else if(arr[i] > secondmax){
19                secondmax = arr[i];
20            }
21        }
22    }
23    return secondmax;
24 }
25 Run | Debug
26 public static void main(String[] args) {
27
28     int[] arr = {2,5,7,4};
29
30     System.out.println("The second largest element in an array :" +getSecondLargest(arr));
31
32 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro15 + ⌂ ⌂ X

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'Proc15'
```

The second largest element in an array :5

PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>

CodingWorshop4 > Pro16.java > Pro16 > printUniqueElements(int[])

```
1 //Function to print unique elements in an integer array printUniqueElements
2
3 public class Pro16 {
4
5     public static void printUniqueElements(int[] arr){
6         for(int readIndex = 0; readIndex<arr.length; readIndex++){
7             int compareIndex;
8             for(compareIndex = 0; compareIndex < readIndex; compareIndex++){
9                 if(arr[readIndex] == arr[compareIndex]){
10                     break;
11                 }
12             }
13
14             if(readIndex == compareIndex){
15                 System.out.print(arr[readIndex] + " ");
16             }
17         }
18     }
19 }
20
21 public static void main(String[] args) {
22     int[] arr = {1,4,2,4,1};
23
24     printUniqueElements(arr);
25 }
26
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro16 + ▾ ... | [] X

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro16'
```

```
1 4 2
```

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

CodingWorshop4 > Pro17.java > Pro17 > getCommonElements(int[], int[])

```
1 //Function to print intersection or common elements of two integer arrays
2
3 public class Pro17 {
4
5     public static void getCommonElements(int[] arr1, int[] arr2){
6         for(int i = 0 ; i<arr1.length; i++){
7             boolean isFound = false;
8             for(int j = 0 ; j<arr2.length; j++){
9                 if(arr1[i] == arr2[j]){
10                     isFound = true;
11                     break;
12                 }
13             }
14             if(isFound){
15                 System.out.print(arr1[i] + " ");
16             }
17         }
18     }
19
20     public static void main(String[] args) {
21         int[] arr1 = {1,5,2,6,7,9};
22         int[] arr2 = {2,6,4,3,5,8};
23
24         getCommonElements(arr1, arr2);
25     }
26 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro17 + ▾ |

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'Pro17'
5 2 6
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```



```
CodingWorkShop5 > Pro18.java > Pro18 > getCountOfWords(String)
1 package CodingWorkShop5;
2 //Function to get Count of words in the String getCountOfWords
3
4 public class Pro18 {
5     public static int getCountOfWords(String str){
6         int countOfWords = 0;
7
8         if (str == null){
9             return countOfWords;
10        }
11
12        if (str.length() == 0){
13            return countOfWords;
14        }
15
16        for(int i=0; i<=str.length()-1; i++){
17            char character = str.charAt(i);
18
19            if (character == ' ' || character == '\t' || character == '\n'){
20                countOfWords++;
21            }
22
23        }
24        //Increment the count for the last word
25        countOfWords = countOfWords + 1;
26        return countOfWords;
27    }
28
29    public static void main(String[] args) {
30        String str = "How are you";
31
32        System.out.println("Count of Words :" +getCountOfWords(str));
33    }
34}
35
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro18 + ×

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'CodingWorkShop5.Pro18'
Count of Words :3
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```