

Coding Workshop - 1 In Java
algorithms365
Performance with purpose



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 +   ... |  

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse
Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExcept
ionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStora
ge\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(x:"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(x:"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\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e82f267996\redhat.java\jdt_ws\Algorithm365 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\ANANVA\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     public static void main(String[] args) {
15         int number = 10;
16
17         System.out.println("The number is : " +number);
18
19         System.out.println();
20
21         System.out.println("Is the given number is EVEN or not : " +isEven(number));
22     }
23 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro3 + - [] [X] ... [] [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.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          return true; //all characters were didgits
15      }
16
17      Run | Debug
18      public static void main(String[] args) {
19          System.out.println(isDigit(s:"1234")); //true
20          System.out.println(isDigit(s:"1a23")); //false
21      }
```

PROBLEMS OUTPUT TERMINAL ...

Run: Pro4 + - [] [X] [] [X]

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse
Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExcept
ionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStora
ge\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(s:"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-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.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     public static void main(String[] args){
15         Scanner obj = new Scanner(System.in);
16         System.out.print(s:"Enter teh Charcter : ");
17         char ch = obj.next().charAt(index:0);
18
19         System.out.println("The ASCII value of the character : " +ASCII
20                             (ch));
21
22         obj.close();
23     }
24 }
```

PROBLEMS OUTPUT TERMINAL ...

Run: Pro6 + - [] [X] ... [] [X]

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse
Adoptium\jdk-21.0.6.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptio
nMessages' '-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 getStrLength to get string length
2 import java.util.Scanner;
3
4 public class Pro7 {
5     public static int getStrLength(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
16     Run | Debug
17     public static void main(String[] args) {
18         Scanner obj = new Scanner(System.in);
19
20         System.out.println("Enter the string :");
21         String Str = obj.nextLine();
22
23         System.out.println("The length of the given string: " +getStrLength(Str));
24
25         obj.close();
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_vs\Algorithm365_c0509dd3\bin' 'Pro7'
Enter the string :
Ananya
8
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```


CodingWorkshop2 > Pro8.java > Pro8 > getCountOfVowels(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 }
```

Run | Debug

```
22 public static void main(String[] args) {
23     Scanner obj = new Scanner(System.in);
24
25     System.out.println(x:"Enter the String :");
26     String Str = obj.nextLine();
27
28     System.out.println("The count of Vowels in the given String : " +getCountOfVowels(Str));
29
30     obj.close();
31 }
32 }
33 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro8 + - [] ... | [] 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' '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 }
```

Run | Debug

```
15 public static void main(String[] args){
16     Scanner obj = new Scanner(System.in);
17
18     System.out.println(x:"Enter the String :");
19     String Str = obj.nextLine();
20
21     System.out.print(s:"The reverse of the String : ");
22     reverseString(Str);
23
24     obj.close();
25 }
26
27
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
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' '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 + - [] ... [X]

```
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:+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    }
```

Run | Debug

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro11 + - [] ... [] 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' 'Pro11'
false
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```

```

1  # Import the pandas module
2  import pandas as pd
3
4  # Create a DataFrame with 5 rows and 3 columns
5  data = {'Category': ['A', 'B', 'A', 'B', 'A'],
6          'Value': [10, 20, 30, 40, 50],
7          'Label': ['Low', 'High', 'Low', 'High', 'Low']}
8
9  # Print the DataFrame
10 print(data)
11
12 # Filter rows where Category is 'A'
13 filtered_data = data[data['Category'] == 'A']
14
15 # Print the filtered DataFrame
16 print(filtered_data)
17
18 # Calculate the mean of the 'Value' column
19 mean_value = data['Value'].mean()
20
21 # Print the mean value
22 print(mean_value)
23
24 # Sort the DataFrame by 'Value' in descending order
25 sorted_data = data.sort_values(by='Value', ascending=False)
26
27 # Print the sorted DataFrame
28 print(sorted_data)
29
30 # Group the DataFrame by 'Category' and calculate the mean of 'Value'
31 grouped_data = data.groupby('Category').mean()
32
33 # Print the grouped DataFrame
34 print(grouped_data)

```

Run | Debug

Run: Pro12 + ▾ □ ☒ ... | □ ×

```
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
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(x:"String is Palindrom");
27        }
28        else{
29            System.out.println(x:"String is not a Palindrom");
30        }
31    }
32 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro11 + ▾ □ 🗑 ... | [] ×

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
s' '-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(x:"Key found");
33         }
34         else{
35             System.out.println(x:"Key not found");
36         }
37     }
38 }
```

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

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: Pro13 + - [] ... [] 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' 'Pro13'

Key found

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

```

1 #FUNCTION TO CHECK THE STRINGS AND PRINT CORRESPONDING MESSAGE AS PER THE
2 #GIVEN STRING VALUE
3
4 #IF THE FIRST AND LAST CHARACTERS OF THE STRING
5 #ARE 'A' AND 'Z' THEN PRINT "YES" ELSE PRINT "NO"
6
7 #IF THE FIRST AND LAST CHARACTERS OF THE STRING
8 #ARE 'A' AND 'Z' THEN PRINT "YES" ELSE PRINT "NO"
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

```

[illegible]

public st

```
public static void main(String[] args) {
    int[] arr1 = {1, 3, 2, 0, 0, 0}; // first 3 are valid, rest empty
    int[] arr2 = {4, 5, 6};

    merge(arr1, m:3, arr2); // m=3 (valid elements in arr1)

    System.out.print(s:"Merged Array: ");
    for (int i = 0; i < arr1.length; i++) {
        System.out.print(arr1[i] + " ");
    }
}
```

The screenshot shows a terminal window with a title bar that includes a close button, the text 'Run: Pro14', and standard window controls (minimize, maximize, close). The terminal content displays a successful execution of a command, with the output 'C:\Program Files\Java\jdk-11.0.2\bin\java.exe' and a return code of '0'. The background of the terminal window is a light blue grid pattern.

Merged Array: 1 3 2 4 5 6

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



```

def test():
    """Test the function"""
    # Create a list of numbers
    numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

    # Call the function
    result = my_function(numbers)

    # Print the result
    print(result)

# Run the test
test()

```

Run | Debug

Run: Pro15 + ▾ □ ☒ ... | □ ×


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

[illegible]

Run | Debug

1 4 2

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

[illegible][illegible]

Run: 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        //Increment the count for the last word
24        countOfWords = countOfWords + 1;
25        return countOfWords;
26    }
27 }
28
29 Run | Debug
30 public static void main(String[] args) {
31     String str = "How are you";
32
33     System.out.println("Count of Words :"+getCountOfWords(str));
34 }
35

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.6-hotspot\bin\java.exe' '-XX
:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ANANYA\AppData\Roaming\Code\User\workspaceStorage\015634db8fc5f9a2b840f9e
82f267996\redhat.java\jdt_ws\Algorithm365_c0509dd3\bin' 'CodingWorkShop5.Pro18'
Count of Words : 3
PS C:\Users\ANANYA\OneDrive\Desktop\Algorithm365>
```