

eclipse-workspace - JavaAssignments-TechM/src/VowelsConsonantCount.java - Eclipse IDE

```
1 import java.util.*;
2 
3 public class VowelsConsonantCount {
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6 
7         Scanner sc=new Scanner(System.in);
8 
9         String input=sc.nextLine();
10        input=input.toLowerCase();
11        int count=0;
12        int countc=0;
13 
14        for(int i=0;i<input.length();i++) {
15            char ch=input.charAt(i);
16            if(Character.isLetter(ch)) {
17                if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u') {
18                    count++;
19                }
20                else {
21                    countc++;
22                }
23            }
24        }
25 
26        System.out.println("Vowels:"+count);
27        System.out.println("Consonants:"+countc);
28    }
29 }
30 
31 }
```

Problems Declaration Console

terminated: VowelsConsonantCount [Java Application] C:\Program Files\Java\jdk1.8.0\_202\bin\javaw.exe (May 31, 2024, 6:56:05 AM – 6:56:34 AM) [pid: 47084]

Hello World!

Vowels:3

Consonants:7

eclipse-workspace - JavaAssignments-TechM/src/UniqueCharacters.java - Eclipse IDE

```
1 import java.util.*;
2 
3 public class UniqueCharacters {
4     public static void main(String args[]) {
5 
6         Scanner sc=new Scanner(System.in);
7         String input=sc.nextLine();
8         StringBuilder result = new StringBuilder();
9 
10        for(int i=0;i<input.length();i++) {
11            int temp=0;
12            for(int j=0;j<i;j++) {
13                if(input.charAt(i)==input.charAt(j)) {
14                    temp=1;
15                    break;
16                }
17            }
18            if(temp==0) {
19                result.append(input.charAt(i));
20            }
21        }
22        System.out.println("Unique characters: " + result.toString());
23    }
24 }
```

Problems Declaration Console

terminated: UniqueCharacters [Java Application] C:\Program Files\Java\jdk1.8.0\_202\bin\javaw.exe (May 31, 2024, 6:55:03 AM – 6:55:33 AM) [pid: 4732]

xperience

Unique characters: xperinc

eclipse-workspace - JavaAssignments-TechM/src/SpaceCharacter.java - Eclipse IDE

```
1 import java.util.*;
2 
3 public class SpaceCharacter {
4 
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner sc=new Scanner(System.in);
8         String input=sc.nextLine();
9         int counts=0;
10        int countc=0;
11        for(int i=0;i<input.length();i++) {
12            char ch=input.charAt(i);
13            if(Character.isLetter(ch)) {
14                countc++;
15            }
16            else if(Character.isSpace(ch)) {
17                counts++;
18            }
19        }
20        System.out.println("space:"+counts);
21        System.out.println("Characters:"+countc);
22    }
23 }
24
25
26
27
28 }
```

Program1

Task List

Outline

Problems Declaration Console

terminated: SpaceCharacter [Java Application] C:\Program Files\Java\jdk1.8.0\_202\bin\javaw.exe (May 31, 2024, 6:53:54 AM - 6:54:32 AM) [pid: 20784]

Hello This is ABCD From XYZ city

space:6

Characters:26

eclipse-workspace - JavaAssignments-TechM/src/SmallestVowel.java - Eclipse IDE

```
1 import java.util.*;
2 
3 public class SmallestVowel {
4 
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner sc=new Scanner(System.in);
8         String input=sc.nextLine();
9         input=input.toLowerCase();
10        int a[]=new int[input.length()];
11        Arrays.fill(a, Integer.MAX_VALUE);
12        for(int i=0;i<input.length();i++) {
13            char ch=input.charAt(i);
14            if(Character.isLetter(ch)) {
15                if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u') {
16                    int ascii=(int)ch;
17                    a[i]=ascii;
18                }
19            }
20        }
21        int b=a[0];
22        for(int i=1;i<input.length();i++) {
23            if(a[i]<b) {
24                b=a[i];
25            }
26        }
27        char finalchar=(char)b;
28    }
29 }
30
31 }
```

Program1

Task List

Outline

Problems Declaration Console

terminated: SmallestVowel [Java Application] C:\Program Files\Java\jdk1.8.0\_202\bin\javaw.exe (May 31, 2024, 6:53:15 AM - 6:53:19 AM) [pid: 46184]

matrix

a

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the JavaAssignments-TechM project with a ReverseStringJava class selected.
- Code Editor:** Displays the Java code for ReverseString.java. The code reads a string from standard input, converts it to lowercase, and then prints the unique characters in reverse order.
- Task List:** An empty list.
- Outline:** Shows the main method of the ReverseString class.
- Console:** Displays the output of the program: "Welcome" followed by "Unique characters: emoclew".

```
1 import java.util.*;
2
3 public class ReverseString {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7
8         Scanner sc=new Scanner(System.in);
9         String input=sc.nextLine();
10        input=input.toLowerCase();
11        StringBuilder result = new StringBuilder();
12
13        for(int i=input.length()-1;i>=0;i--) {
14            char ch=input.charAt(i);
15            result.append(ch);
16        }
17        System.out.println("Unique characters: " + result.toString());
18
19    }
20
21 }
```

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - JavaAssignments-TechM/src/ReverseNumber.java - Eclipse IDE
- Menu Bar:** File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help
- Toolbars:** Standard toolbar with various icons.
- Left Sidebar (Package Explorer):** Shows the project structure:
  - JavaAssignments-TechM
  - JRE System Library [JavaSE-1.8]
  - src
    - (default package)
      - PerfectSquare.java
      - ReverseNumber.java
      - ReverseString.java
      - SmallestVowel.java
      - SpaceCharacter.java
      - UniqueCharacters.java
      - VowelsConsonantCount.java
  - Program1
- Central Area (Code Editor):** Displays the Java code for ReverseNumber.java:

```
1 import java.util.*;
2
3 public class ReverseNumber {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner sc=new Scanner(System.in);
8         String input=sc.nextLine();
9         StringBuilder result=new StringBuilder();
10
11         for(int i=input.length()-1;i>=0;i--) {
12             char ch=input.charAt(i);
13             if(Character.isDigit(ch)) {
14                 result.append(ch);
15             }
16         }
17         System.out.println(result.toString());
18     }
19 }
20
21 }
```
- Right Sidebar (Task List, Outline):**
  - Task List:** Find > All > Activate...
  - Outline:** Shows the class structure:
    - ReverseNumber
    - main(String[])
- Bottom Status Bar:** Problems, Javadoc, Declaration, Console x  
<terminated> ReverseNumber [Java Application] C:\Prog Close isJava\jdk1.8.0\_202\bin\javaw.exe (May 31, 2024, 6:51:35 AM - 6:51:38 AM) [pid: 10832]  
12345  
54321

eclipse-workspace - JavaAssignments-TechM/src/PerfectSquare.java - Eclipse IDE

File Edit Source Refactor Navigate Project Run Window Help

Package Explorer X

JavaAssignments-TechM

JRE System Library [JavaSE-1.8]

src

(default package)

PerfectSquare.java

ReverseNumber.java

ReverseString.java

SmallestVowel.java

SpaceCharacter.java

UniqueCharacters.java

VowelsConsonantCount.java

Program1

PerfectSquare.java

```
1 import java.util.*;
2 
3 public class PerfectSquare {
4 
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7 
8         Scanner sc=new Scanner(System.in);
9         int input=sc.nextInt();
10        int sqrt=(int) Math.sqrt(input);
11        if(sqrt*sqrt==input) {
12            System.out.print(true);
13        }
14        else {
15            System.out.print(false);
16        }
17    }
18 }
19 }
20 }
```

Task List X

Find All Activate...

Outline X

PerfectSquare

main(String[]) : void

Problems Javadoc Declaration Console X

<terminated> PerfectSquare [Java Application] C:\Program Files\Java\jdk1.8.0\_202\bin\javaw.exe (May 31, 2024, 6:50:05 AM – 6:50:08 AM) [pid: 37096]

true

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - JavaAssignments-TechM/src/OddCharacters.java - Eclipse IDE
- Menu Bar:** File, Edit, Source, Refactor, Search, Project, Run, Window, Help
- Toolbars:** Standard toolbar with icons for New, Open, Save, Cut, Copy, Paste, Find, etc.
- Left Sidebar (Package Explorer):** Shows the project structure:
  - JavaAssignments-TechM
  - JRE System Library [JavaSE-1.8]
  - src
    - (default package)
      - LastCharacter.java
      - OddCharacters.java
      - PerfectSquare.java
      - ReverseNumber.java
      - ReverseString.java
      - SmallestVowel.java
      - SpaceCharacter.java
      - UniqueCharacters.java
      - VowelsConsonantCount.java
  - Program1
- Central Area (OddCharacters.java):** The code for OddCharacters.java is displayed:

```
1 import java.util.*;
2 
3 public class OddCharacters {
4 
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner sc=new Scanner(System.in);
8         String input=sc.nextLine();
9         StringBuilder result=new StringBuilder();
10        for(int i=1;i<input.length();i+=2) {
11            char ch=input.charAt(i);
12            result.append(ch);
13        }
14        System.out.print(result.toString());
15    }
16 }
17
18 }
```
- Right Sidebar (Task List):** Shows the Task List with options to Find, All, Activate...
- Bottom Area (Console):** Displays the output of the program:

```
hey there!
e hr-i
```

eclipse-workspace - JavaAssignments-TechM/src/LastCharacter.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer ×

- Java Assignments-TechM
- JRE System Library [JavaSE-1.8]
- src
  - (default package)
    - LastCharacter.java
    - PerfectSquare.java
    - ReverseNumber.java
    - ReverseString.java
    - SmallestVowel.java
    - SpaceCharacter.java
    - UniqueCharacters.java
    - VowelsConsonantCount.java
- Program1

LastCharacter.java

```
1 import java.util.*;
2 
3 public class LastCharacter {
4 
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner sc=new Scanner(System.in);
8         String input=sc.nextLine();
9         StringBuilder result=new StringBuilder();
10        String[] words=input.split("\\s+");
11        for(String word:words) {
12            for(int i=word.length()-1;i>=0;i--) {
13                char ch=word.charAt(i);
14                if(Character.isLetter(ch)) {
15                    result.append(ch);
16                    break;
17                }
18            }
19        }
20        System.out.println(result.toString());
21    }
22 }
23 }
```

Task List ×

Find All Activate...

Outline ×

LastCharacter

Problems Javadoc Declaration Console ×

<terminated> LastCharacter [Java Application] C:\Program Files\Java\jdk1.8.0\_202\bin\javaw.exe (May 31, 2024, 7:50:17 AM – 7:50:32 AM) [pid: 53384]

Hey3 Java Learners  
yas

Writable Smart Insert 24:1:522

The screenshot shows the Eclipse IDE interface with a dark theme. The central part displays the Java code for 'LastCharacter.java'. The code reads a string from standard input, splits it into words, and then iterates through each word from right to left. It appends letters that are not whitespace to a StringBuilder, stopping at the first letter found. Finally, it prints the resulting string. Below the code editor is the 'Console' view, which shows the output of the program: 'Hey3 Java Learners' followed by 'yas'. The bottom status bar indicates the file is 'Writable' and the current line and column are '24:1:522'.