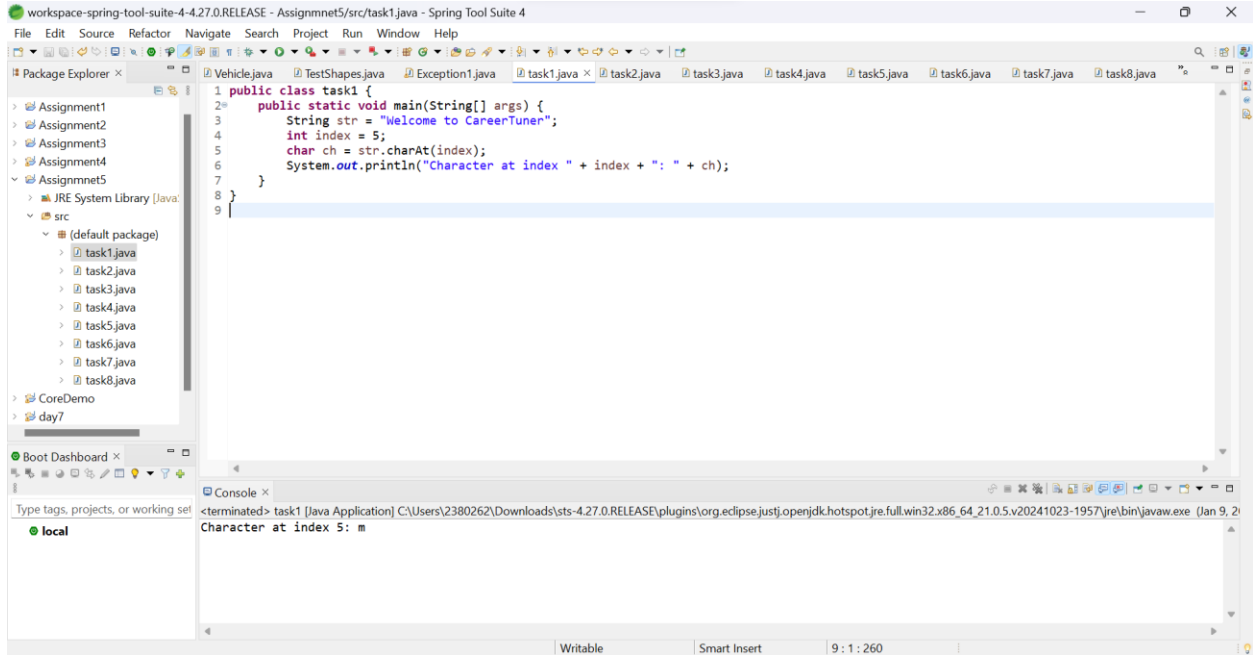


Task1:

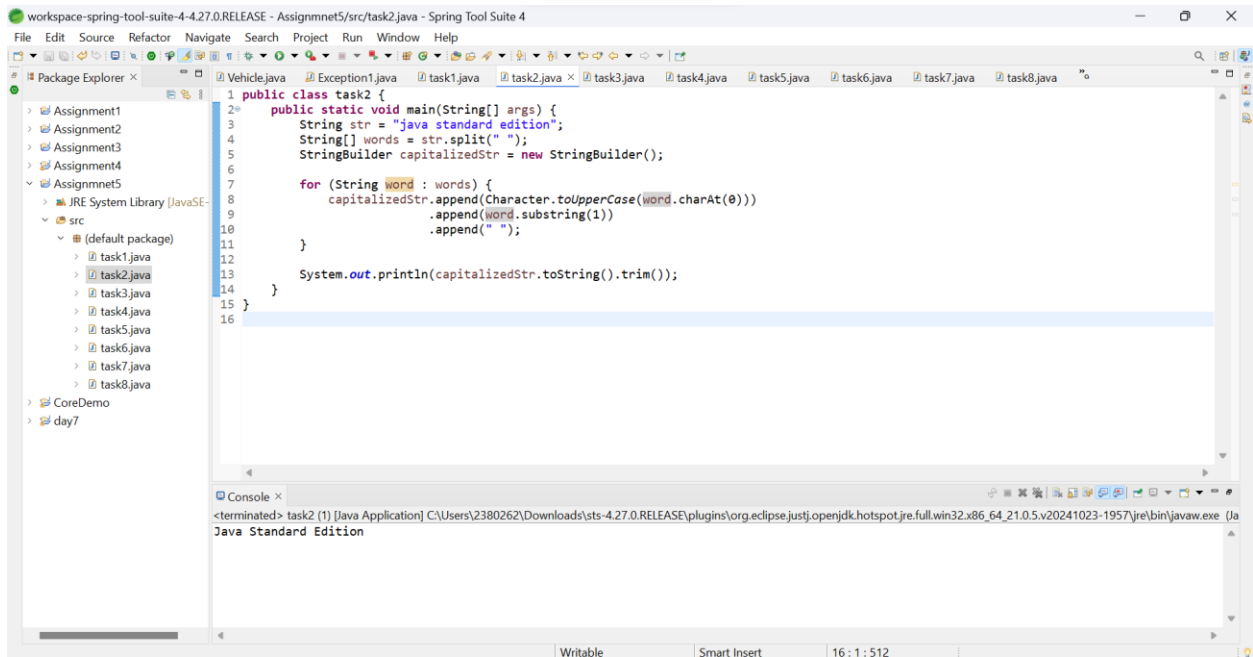


The screenshot shows the Spring Tool Suite 4 IDE with the file 'task1.java' open. The code defines a 'task1' class with a 'main' method that prints the character at index 5 of the string 'Welcome to CareerTuner'. The console output shows 'Character at index 5: n'.

```
1 public class task1 {  
2     public static void main(String[] args) {  
3         String str = "Welcome to CareerTuner";  
4         int index = 5;  
5         char ch = str.charAt(index);  
6         System.out.println("Character at index " + index + " : " + ch);  
7     }  
8 }  
9
```

Console output: <terminated> task1 [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bin\javaw.exe (Jan 9, 2024) Character at index 5: n

Task2:

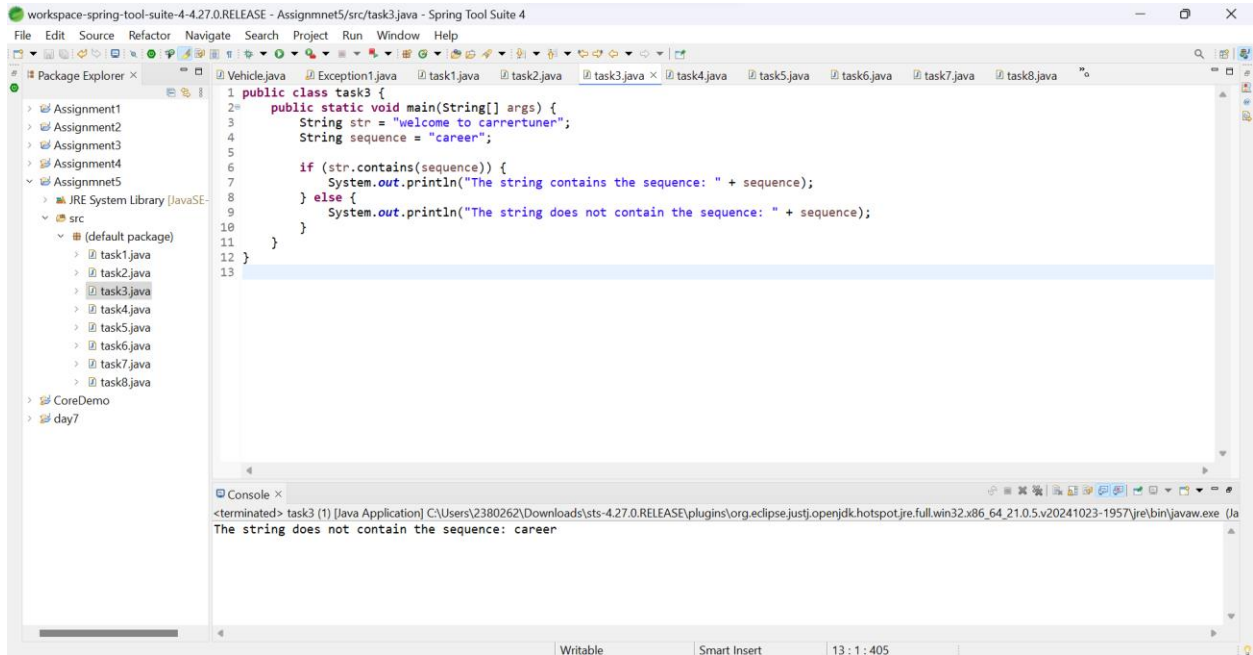


The screenshot shows the Spring Tool Suite 4 IDE with the file 'task2.java' open. The code defines a 'task2' class with a 'main' method that takes the input 'java standard edition', splits it into words, capitalizes each word, and prints the result. The console output shows 'Java Standard Edition'.

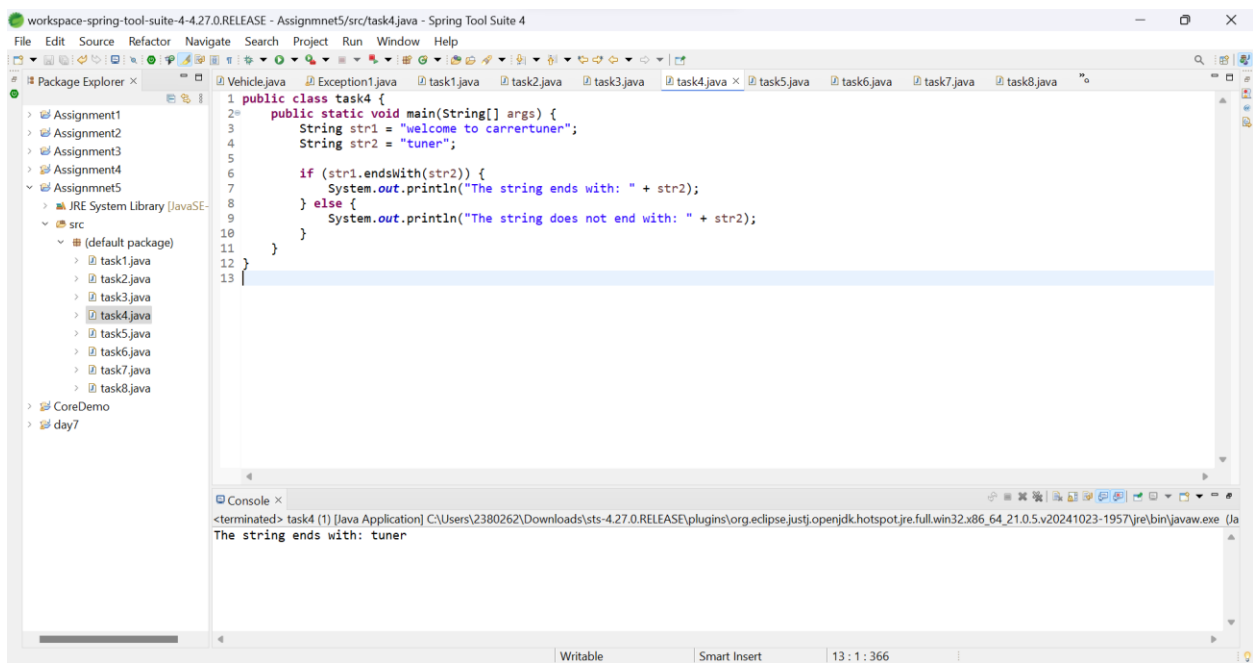
```
1 public class task2 {  
2     public static void main(String[] args) {  
3         String str = "java standard edition";  
4         String[] words = str.split(" ");  
5         StringBuilder capitalizedStr = new StringBuilder();  
6  
7         for (String word : words) {  
8             capitalizedStr.append(Character.toUpperCase(word.charAt(0)))  
9                 .append(word.substring(1))  
10                .append(" ");  
11         }  
12  
13         System.out.println(capitalizedStr.toString().trim());  
14     }  
15 }  
16
```

Console output: <terminated> task2 (1) [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bin\javaw.exe (Jan 9, 2024) Java Standard Edition

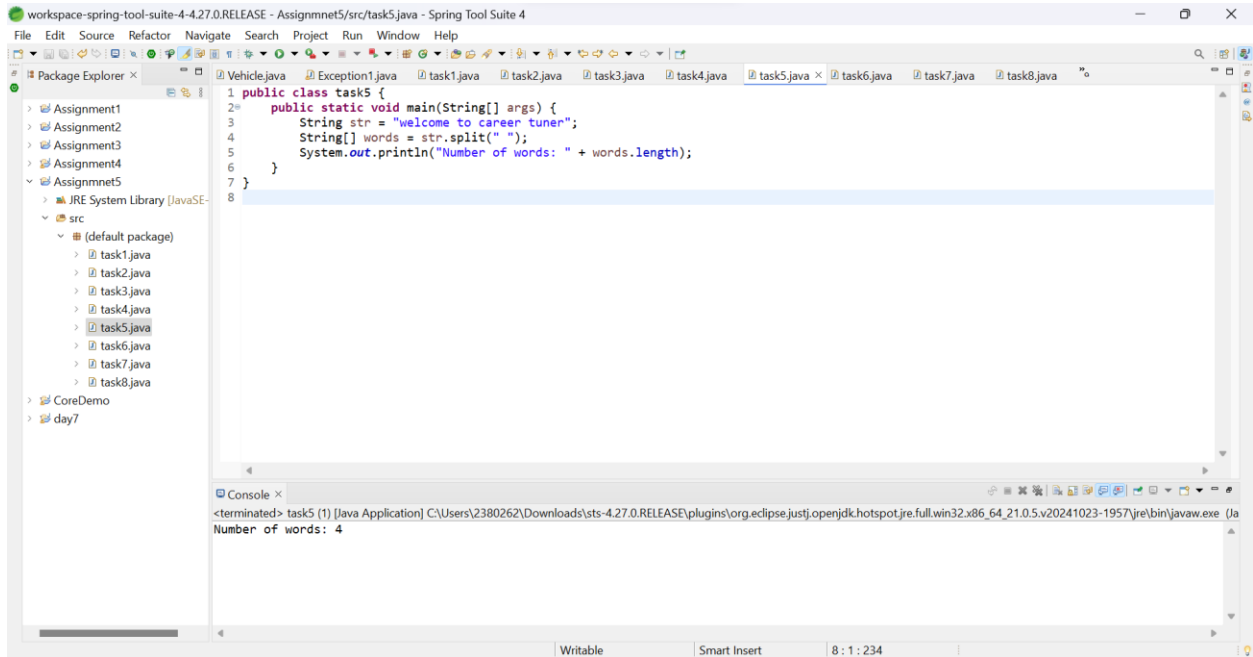
Task3:



Task4:



Task5:

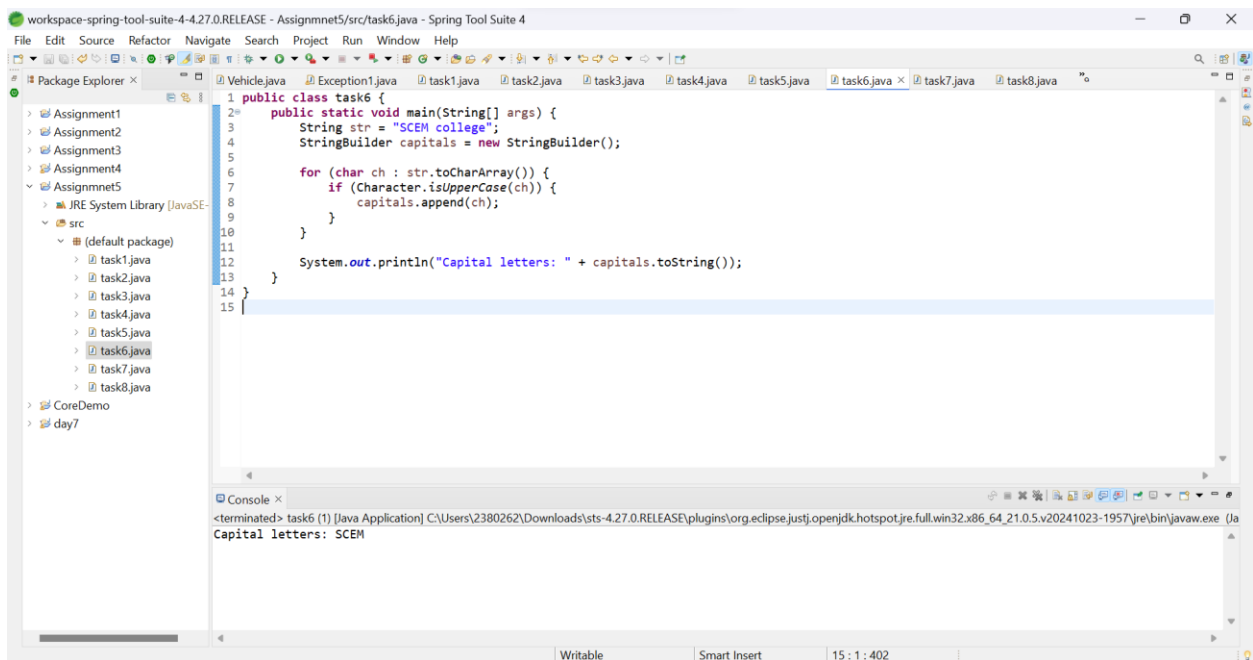


The screenshot shows the Spring Tool Suite 4 IDE with the file `task5.java` open. The code defines a `task5` class with a `main` method that splits the string `"welcome to career tuner"` by spaces and prints the number of words. The Package Explorer on the left shows the project structure with `task5.java` selected. The Console at the bottom shows the output: `Number of words: 4`.

```
1 public class task5 {  
2     public static void main(String[] args) {  
3         String str = "welcome to career tuner";  
4         String[] words = str.split(" ");  
5         System.out.println("Number of words: " + words.length);  
6     }  
7 }  
8
```

Console output:
<terminated> task5 (1) [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bin\javaw.exe (Ja
Number of words: 4

Task6:

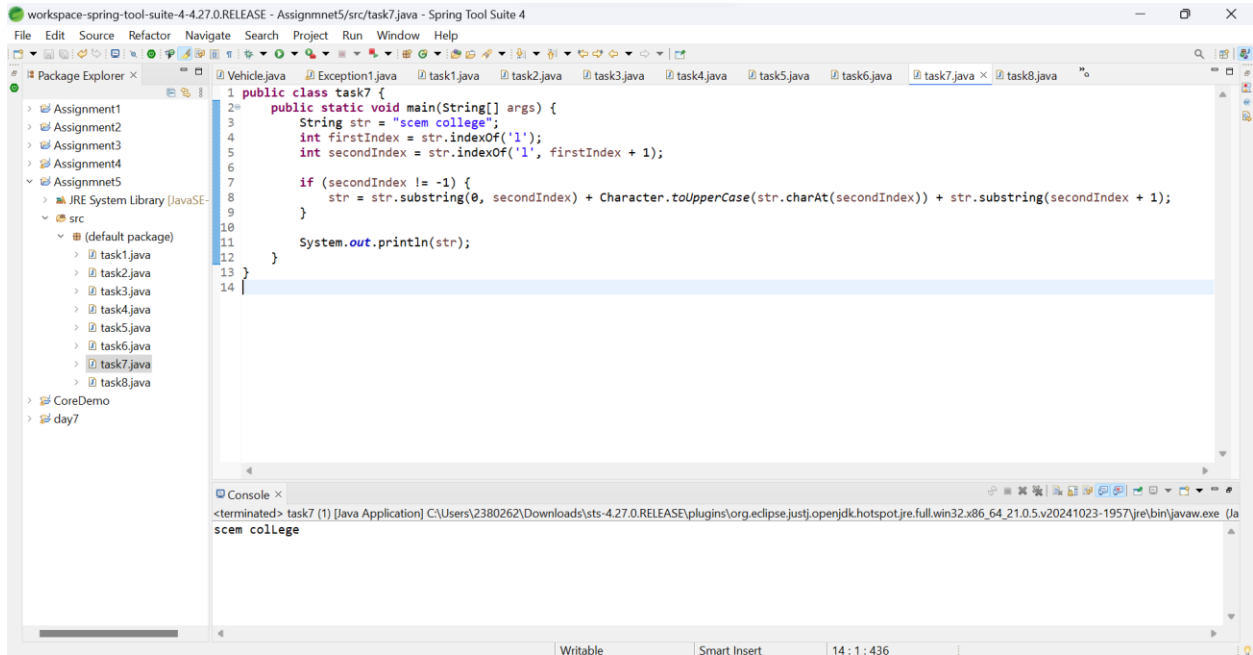


The screenshot shows the Spring Tool Suite 4 IDE with the file `task6.java` open. The code defines a `task6` class with a `main` method that iterates through the characters of the string `"SCEM college"`, appends the uppercase characters to a `StringBuilder`, and prints the result. The Package Explorer on the left shows the project structure with `task6.java` selected. The Console at the bottom shows the output: `Capital letters: SCEM`.

```
1 public class task6 {  
2     public static void main(String[] args) {  
3         String str = "SCEM college";  
4         StringBuilder capitals = new StringBuilder();  
5  
6         for (char ch : str.toCharArray()) {  
7             if (Character.isUpperCase(ch)) {  
8                 capitals.append(ch);  
9             }  
10        }  
11  
12        System.out.println("Capital letters: " + capitals.toString());  
13    }  
14 }  
15
```

Console output:
<terminated> task6 (1) [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bin\javaw.exe (Ja
Capital letters: SCEM

Task7:



The screenshot shows the Spring Tool Suite 4 IDE with the file `task7.java` open. The code defines a `task7` class with a `main` method that takes a string `str` and finds the first space character. It then capitalizes the character immediately following the space. The console output shows the result of running the program.

```
1 public class task7 {  
2     public static void main(String[] args) {  
3         String str = "scem college";  
4         int firstIndex = str.indexOf(' ');  
5         int secondIndex = str.indexOf(' ', firstIndex + 1);  
6  
7         if (secondIndex != -1) {  
8             str = str.substring(0, secondIndex) + Character.toUpperCase(str.charAt(secondIndex)) + str.substring(secondIndex + 1);  
9         }  
10  
11         System.out.println(str);  
12     }  
13 }  
14
```

Console output:

```
<terminated> task7 (1) [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bin\javaw.exe (Ja  
scem college
```

Task8:



The screenshot shows the Spring Tool Suite 4 IDE with the file `task8.java` open. The code defines a `task8` class with a `main` method that takes a string `str` and replaces the first occurrence of the word "scem" with "s.c.e.m". The console output shows the result of running the program.

```
1 public class task8 {  
2     public static void main(String[] args) {  
3         String str = "s.c.e.m college";  
4         String oldWord = "scem";  
5         String newWord = oldWord.toUpperCase();  
6  
7         str = str.replace(oldWord, newWord);  
8         System.out.println(str);  
9     }  
10 }  
11
```

Console output:

```
<terminated> task8 (1) [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bin\javaw.exe (Ja  
s.c.e.m college
```