Tutorial 9: Strings

This tutorial will provide practice at using methods to manipulate strings

Task 1: Initials



Write a program to prompt the user to enter **a single line** containing their full name (first name, second name and surname) and output their three initials.

You can assume that the user always types three names and does not include any unnecessary spaces.

Hints use only one read operation to get the full name use the string methods to work out where the first and last space characters are remember that character locations in strings start at 0

Step 1: Create a NetBeans project

• create a new project called InitialsProj in a folder called T9

Step 2: Write source code

- add a new file called Initials to the InitialsProj project
- write code to input the user's name and output their initials

Step 3: Test your program and take screen shots

- run your program
- take a screen shot of the output and save it in your project folder as Initials.jpg

Portfolio requirements

- The NetBeans project for this completed task
- Initials.jpg from step 3, containing a screen shot of the output

Task 2: Hangman





Write a program to play a simplified version of Hangman. The program should prompt a user for a word to be guessed and then display dashes in place of each of the letters:

```
Word to be guessed: scratch Display: -----
```

A second player is then prompted to guess letters in the word. If the letter is present, all occurrences of that letter should be replaced and the word displayed again:

```
Letter guessed: c Display:
```

When all the letters have been correctly guessed, the program should output the number of guesses it took to get the word.

Step 1: Analyse the problem

• write pseudo-code for the Hangman game and store it in a file called HangmanPseudo.doc

Step 2: Create a NetBeans project

• create a new project called HangmanProj in a folder called T9

Step 3: Write source code

- add a new file called Hangman to the Hangman Proj project
- using the analysis from step 1, write code to play the simplified game of Hangman

Step 4: Test your program and take screen shots

- run your program
- take a screen shot of the output and save it in your project folder as Hangman.jpg

Portfolio requirements

- The NetBeans project for this completed task
- HangmanPseudo.doc from step 1 containing your analysis of the Hangman game
- Hangman.jpg from step 4, containing a screen shot of the output



Task 3: Infinite Initials

This task is similar to Task 1, except that your program should accept user input of any number of names. Your program is to ignore any extra spaces, whether they be at the leading, trailing, or in the middle. Hyphenated names should result in hyphenated initials.

User input: " Joseph David Kingsley-Montgomery " Initals output: J.D.K-M.

Portfolio requirements

- The NetBeans project for this completed task
- InfiniteInitials.doc containing your analysis of the problem
- InfiniteInitials.jpg containing a screen shot of your application's output