# String manipulation tasks

## Task 1 - Username

Turn the following pseudo code into a Python program:

```
firstname=input("Enter your firstname")

secondname = input("Enter you surname")

year=input("Enter the year you joined the school (e.g. 2019)")

username=firstname[0]+secondname[0]+secondname[1] + "." + year[2] + year [3]

print ("Your username is:",username)
```

## Task 2 - Email address checker

Create a program that asks the user of the program to type in their email address.

Your program should check whether the email address typed in contains at least 1 '@' character and at least one '.' character. If it does, print a message saying "the address seems to be valid", otherwise print "the email address does not seem to be valid".

## Task 3 - Email address checker extension

Extend the program you created for task 2 to make sure that:

the email address is at least 7 characters long

the . and @ symbols do not appear as the first or last characters

## Task 4 - Grade book

Create a program that has a first line as follows:

```
lineToProcess= "Billy,20"
```

Add some code after that first line that will extract the first part up to the comma and stores it into a variable called `studentName`, and then add another line of code that extracts the rest of the string after the comma to the end of the line, and stores that into a variable called `studentMark.` Test your code by printing out the contents of the two variables. If it appears to work, then change the first line so it reads:

```
lineToProcess= "Stephanie,23"
```

Check if it still works as you expect.

(continues...)

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## Task 5 - Star Wars name

A game requires a person to type in their first name and last name. It will then generate a new name that sounds like the name of a Star Wars character.

1. Take the **last** 3 letters of your surname
2. Take the **first** 2 letters of your first name
3. Add together the letters you found in step 1 to the letters you found in step 2 to form your new first name
4. Print out the first name followed by the unmodified surname

## Task 6 - Star Wars name extension

Take the program you created for the previous task and this time display the surname reversed (hint: you will need to use a loop that takes each character one after another from the surname, starting at the back, and then adds that character to a new string called starWarsSurname until all characters from the surname have been read.

```
Enter your first name: bill
Enter your surname: gates
Your Star Wars Name is: tesbi setag
```

## Task 7 - Star Wars name extension 2

Take the program you created for the previous task and this time, if the user has typed a mixture of upper and lower case letters in the name, it should print the Star Wars name in lower case letters apart from the first letters of each part of the name:

```
Enter your first name: Bill
Enter your surname: Gates
Your Star Wars Name is: Tesbi Setag
```

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