Substring

# Code snippets .

Access the substring

|  | word[1:3] |
| --- | --- |

Find a substring using the in operator

|  | if "12" in username: |
| --- | --- |

Concatenate multiple strings

|  | fish = "Flounder"  name = "Darwin"  fishname = fish + name |
| --- | --- |

Check if a character is a number

|  | character.isdecimal() |
| --- | --- |

# Task: Username .

A school technician requires a program that will generate usernames for the new Year 7 cohort. Each username should have:

* The starting year
* The surname
* The first initial

The username should look like this: 20SurnameInitial. So if a learner starts in the year 2020, and their first name is Ronald, and their last name is Smith, then their username would be: 20SmithR

Create a system that will allow a user to enter their starting year, surname, and first name. The system should then output the username in the format shown above.

**Paste your completed code below:**

|  |
| --- |

# Task: Year-group checker .

A school technician requires a program that will let teachers know which year group a learner is in, based on their username. The program should:

* Prompt the user to enter a username
* Check the first two digits of the username
* Reveal which year group the learner is in

Here is a table to show the start digits against the year group. This will help you with your program:

| 20 | Year 7 |
| --- | --- |
| 19 | Year 8 |
| 18 | Year 9 |
| 17 | Year 10 |
| 16 | Year 11 |

**Paste your completed code below:**

|  |
| --- |

# Task: Password .

A school technician requires a program that will check if a password contains a number and is at least eight characters. The program should:

* Prompt the user to enter a password
* Check the length of the password meets the requirements
* Check that there is at least one number in the password
* Continue to ask for a password until these requirements are met

**Paste your completed code below:**

|  |
| --- |

# Explorer task .

**Task 1**

There are three methods for checking if a string contains a number. You have already used str.isdecimal(), what are the other two?

**Answer:**

|  |
| --- |

**Hint:** Use the [Python documentation](https://ncce.io/stringpythondoc) (ncce.io/stringpythondoc) to find out.

**Task 2**

Complete some online research to find out the difference between each method. Write your findings below:

**Findings:**

|  |
| --- |