

# Practice 1

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- 1) **S = "Python is a high-level, general-purpose and very popular programming language. The Python programming language is being used in Web Development, Machine Learning applications, Computer Vision, along with all the cutting-edge technology in the software industry"**

Write a program in the **Pycharm Editor** that takes this string and does the following:

- Print the length** of the string
- Print the number of times** the word "Python" appears in the string.
- Print the index** (location) of the word "Machine Learning" in the string.
- Replace** the word "Python" with "C++" and **assign** this string to a **new variable**.  
**print the NEW** string.
- Print the index** of the word "Machine Learning" in the **NEW** string.
- Print the entire NEW** string as **lower-case**.
- Print the entire NEW** string as **upper-case**.

- 2) **S1 = "hello "**  
**S2 = " WORLD"**

Write a program in the **Pycharm Editor**. Use **string methods** using these 2 strings to print the following:

- "hello WORLD"**
- "HELLO world"**
- "HelloWorld"**
- "Hello World"**

- 3) **S1 = "Apple"**  
**S2 = "Banana"**  
**S3 = "Carrot"**

Write a program in the **Pycharm Editor**. Use **string indexing** using these 3 strings to print the following:

- "ABC"**
- "eat"**
- "app"**
- "nana"**
- "rot"**
- "aaAaa"**