

Assessment 1

CONTENTS

1	Objective	2
2	Duration	2
3	Complete the Following Requirements	2
3.1	Define the Logic	Error! Bookmark not defined.
3.2	Writing Python code	Error! Bookmark not defined.
3.3	Test the code.....	Error! Bookmark not defined.

1 OBJECTIVE

- To search for all the given substring occurrences in a block of text
- To convert the logic into a reusable function

2 DURATION

2 Hours

3 COMPLETE THE FOLLOWING REQUIREMENTS

3.1 DEFINE THE LOGIC

Write a flow chart depicting the logic to output the span of all occurrences of a given substring in a block of text.

For example: If the input text is: **"if stu chews shoes, should stu choose the shoes he chews"** and if the search string is "shoes", the logic should output [(13, 18). (42, 47)]

A span of the substring is the indexes between which the substring was found. The above output is the list of spans represented as a tuple

3.2 WRITE PYTHON CODE

Write python function to implement the above logic and return all the spans

3.3 TEST THE CODE

- Test the code with multiple test cases and validate if the spans are exact
- It should include overlapping and non-overlapping cases as well
- Make necessary adjustments as required