



Condition Statements and Loops Task

Task Requirements Document





Task Requirements

1. Print Write a Python program to construct the following pattern, using a nested for loop.

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

2. Write a Python program to print alphabet pattern 'A'.

```
***
*   *
*   *
*****
*   *
*   *
*   *
```



3. Write a Python program to calculate the sum and average of n integer numbers (input from the user). Input 1 to finish.

4. Write a Python program to check the validity of a password (input from users).

Validation:

- At least 1 letter between [a-z] and 1 letter between [A-Z].
 - At least 1 number between [0-9].
 - At least 1 character from [!#\$%&'].
 - Minimum length 6 characters.
 - Maximum length 16 characters.
5. Write a Python program that accepts a string and calculate the number of digits and letters.



Task Programming Language and Technologies'

- Python Programming Language.
- Jupiter Notebooks.
- Google Colab.



Evaluation Criteria'

- 50% on functional Code.
- 40% program workflow.
- 10% adding extra features that help archives better results.



Deadline'

19/11/2024 at 11:59 pm



Notes

- Submit your unique solution.
- Submit your solution as **ipynb** format.
- Have fun and enjoy 😊.