



# *Hands-On Prerequisite Python in AI*

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## *Exercises 03 & 04*

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*Deadline: 2023 25 April*

*Score: 800*

*2023 18 April*



# ***Hands-On Prerequisite Python in AI***

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## ***Exercises 03***

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***Score: 400***

*2023 18 April*

# Question 1 (String)

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100

**Get a string from input and display the first, last and middle characters.**

**Points:**

- ✓ **If the length of the string is even, display the middle two characters.**
- ✓ **The output is exactly the same as the example below**

**Input: “Python”**

**Output:** First character of “Python” is: P  
Last character of “Python” is: n  
Middle characters of “Python” is: th

# Question 2 (String)

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100

**Get three strings from the input and display in the output any one whose length is greater than the average length of the three strings.**

# Question 3 (String)

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100

**Get two strings from the input, if the second string is present in the first string, remove it, otherwise add the second string at the start and end of the first string. Display the new string in the output.**

# Question 4 (String)

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100

**Find four new methods for strings.**



# ***Hands-On Prerequisite Python in AI***

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## ***Exercises 04***

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***Score:400***

*2023 18 April*

# Question 1 (Loop)

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100

**Display the following pattern in the output.**

**P**  
**PY**  
**PYT**  
**PYTH**  
**PYTHO**  
**PYTHON**



# Question 2 (Loop)

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100

Find the number of vowel characters (a, e, i, o, u) in the text below.

“Python is a high-level, general-purpose programming language.”

# Question 3 (Loop)

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100

**Get a number from the input and display the following result.**

**Input: 5**

**Output:  $5 * 0 = 0$**

**$5 * 2 = 10$**

**$5 * 4 = 20$**

**$5 * 6 = 30$**

**$5 * 8 = 40$**

**$5 * 10 = 50$**

# Question 4 (Loop)

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100

Get a number from the input and display the following result.

**Input: 5**

**Output:**  $5 / 0 = \text{Error}$

$5 / 1 = 5$

$5 / 2 = 2$

$5 / 3 = 1$

$5 / 4 = 1$

***Thanks***

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***Good Luck!***

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