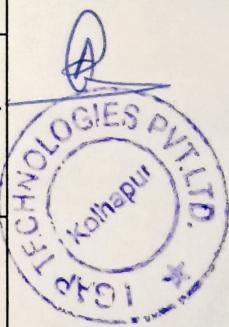




**Internships Daily Diary(2025-26)**  
**Department Of Artificial Intelligence & Machine Learning Engineering**

**Program Code** : AI5K  
**Name of the Student** : Sanika Dhanaji Chougale  
**Name of the Mentor (Faculty)** : Mrs. P. M. Kumbhar  
**Name of the Mentor (Industry)** : Mr. Abhijit Gataude  
**Enrollment Number** : 23213500044

Week	Day & Date	Discussion Topics/Activity	Details of Work Allotted Till Next Session /Corrections Suggested/Faculty Remarks	Signature of Industry Mentor
Week 4	Mon, Date 23/06/25	◆ Displaying output ,variables, and Interactive Input.	Learned print Statements , Variables and User input handling	
	Tue, Date 24/06/25	◆ Working with Data Types and Type Casting	Practiced data-type and typecasting with input values	
	Wed, Date 25/06/25	◆ Making Decisions Using Conditional Statements	Implemented Conditional statements using if- elif - else.	
	Thu, Date 26/06/25	◆ Automating Tasks with for and While loops	Explored loops and range() for repetitive tasks.	
	Fri, Date 27/06/25	◆ Manipulating strings and Lists in python	Worked on string functions and list Operations.	
	Sat, Date 28/06/25	◆ Creating and Using functions for Reusability	Created Custom function to reuse code effectively.	



**Internships Daily Diary (2025-26)**

Week No: 04

Day: Monday

Date: 23/06/25

Topic : "Displaying Output , Variables and Interactive Input."

On the first day of the week, I focused on understanding the basic building blocks of python programming.

I learned how to use the print() function to display output on the console, which is the most fundamental aspect of interacting with the user.

I also learned how to declare and initialize variables to store different types of data.

Another important part of the day was learning how to take input from the user using the input() function.

This session helped me build a strong foundation in handling user interaction and managing data flow within a python program.



### Internships Daily Diary (2025-26)

Week No: 04

Day: Tuesday

Date: 24/6/25

Topic: "Working with Data types and type Casting."

On Tuesday, I expanded my knowledge of python by studying various data types such as integers, floats, strings, and booleans.

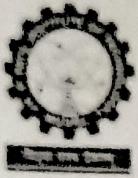
I performed practical exercise to check the type of a variable using the type() function and learned how to convert one data type to another using type casting methods like int(), float(), str(),

#### • Type Casting:

1] Implicit

2] Explicit

- int()
- float()
- complex()
- bool()
- str()
- set()



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**K.P.PATIL INSTITUTE OF TECHNOLOGY**

(DTE CODE : 6814) (MSBTE Code : 1661)

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**Internships Daily Diary (2025-26)**

**Week No: 04**

**Day: Wednesday**

**Date: 25/06/25**

**Topic: "Making Decisions Using Conditional Statements."**

On Wednesday, I learned how to control the flow of a Python program using Conditional Statement.

I Studied the Syntax and usage of if, elif and else statements to execute Specific blocks of Code based on Certain Conditions.

I Created simple programs like checking if a number is positive or negative, even or odd.

This session helped me understand how logical conditions work and how multiple conditions can be nested together.

It enhanced my logical thinking and problem-solving skills, which are crucial for developing intelligent programs.



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**Internships Daily Diary (2025-26)**

Week No: 04

Day: Thursday

Date: 26/06/25

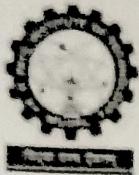
Topic: "Automating Tasks with for and while loops."

On Thursday, I divided into loops, which are essential for performing repetitive tasks efficiently. I learned how to use for loops to iterate over sequences like lists, strings or a range of numbers.

I also practiced using the range() function to generate a sequence of numbers for the loop to run through.

I wrote programs such as printing the first 10 natural number, calculating the sum of numbers & generating multiplication tables.

for loop are works on sequences like list, range and while loop also Boolean condition.



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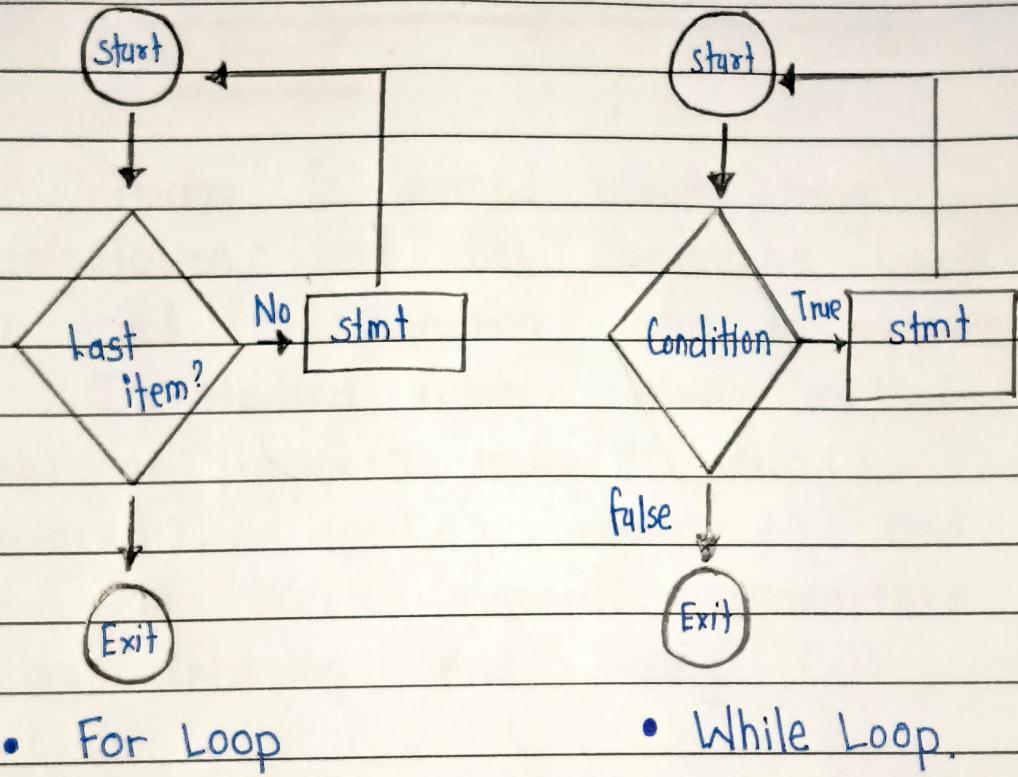
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**Internships Daily Diary (2025-26)**

Week No: 04

Day: Thursday

Date: 26/06/25



These exercises made me realize how loops can simplify tasks that would otherwise require writing repetitive code manually.



### Internships Daily Diary (2025-26)

Week No: 04

Day: Friday

Date: 27/06/25

Topic: "Mainpulating Strings and Lists in python."

Friday, I learned about string manipulation and list operations, which are vital for handling data in python. I studied various string methods such as `upper()`, `lower()`, `strip()`, `replace()`, `split()`, `replace()`, and how to access specific characters using indexing and slicing.

for lists, I explored how to create lists, add and remove element, sort and reverse lists, and access element using indexes and Slices. I practiced using list methods like `append()`, `insert()`, `remove()`, `pop()`, `sort()`, and `reverse()`.

Which is a fundamental concept in python programming.



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**Internships Daily Diary (2025-26)**

Week No: 04

Day: Saturday

Date: 28/06/25

Topic : "Creating and Using functions for Reusability."

Saturday, I focused on writing reusable code by learning how to define custom functions in python.

I studied how to create functions with and without parameters, return values, and call them in a program. functions for specific tasks, which makes the code cleaner, modular, and easier to debug.

This session taught me the importance of reusability and how functions help functions help in reducing code duplication and improving readability.