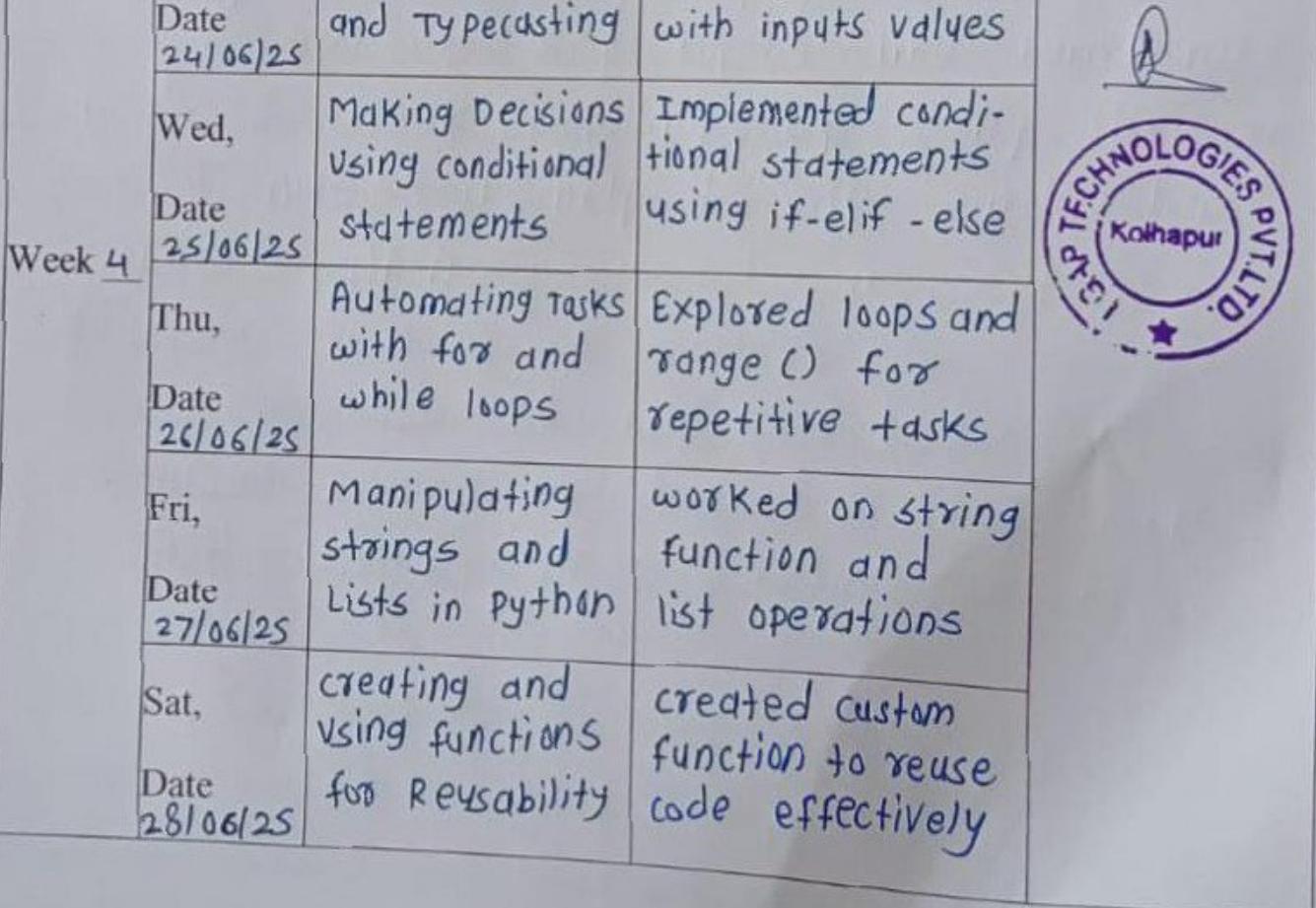


**Internships Daily Diary(2025-26)****Department of Artificial Intelligence & Machine Learning****Program Code :AN5K****Name of the Student:** Rane Priyanka Deepak**Name of the Mentor (Faculty):** Mrs. P. M. Kumbhar**Name of the Mentor (Industry):** Mr. Abhijit Prakash Gratade**Enrollment Number:** 23213500012

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 <u>23/06/25</u>	Displaying output variables and interactive input	Learned print statement, variables and user inputs handling	 
	Tue, Date <u>24/06/25</u>	Working with Data Types and Typecasting	Practiced data types and typecasting with inputs values	
	Wed, Date <u>25/06/25</u>	Making Decisions using conditional statements	Implemented conditional statements using if-elif - else	
	Thu, Date <u>26/06/25</u>	Automating tasks with for and while loops	Explored loops and range() for repetitive tasks	
	Fri, Date <u>27/06/25</u>	Manipulating strings and Lists in Python	Worked on string function and list operations	
	Sat, Date <u>28/06/25</u>	Creating and using functions for Reusability	Created custom function to reuse code effectively	



### Internships Daily Diary (2025-26)

Week No: 4

Day: Monday

Date: 23/06/25

Topic :- Print, Variables & User Input

Today, I explored the print() function in python and learned how to display output in various formats using special characters like \n (for new lines) and arguments such as sep and end to control spacing and line endings. These tools help customize the way output is displayed on the screen.

I also learned about variables and how they can store different types of data. One great feature of python is that it doesn't require explicit declaration of data types, which make it beginner-friendly. In addition, I used input() function to collect data from the user. This helped me understand the importance of type conversion, and how using int() can convert input strings into integers for proper calculation.

It felt exciting to create a program that actually interacts with users!

Overall, I'm beginning to see how even small python programs can become more interactive and meaningful when you combine user input with smart output formatting.

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

Week No: 4

Day: Tuesday

Date: 24/06/25

Topic :- Data Types and Typecasting

Today, I explored data types in python more deeply including integers, floats, strings, and booleans.

I also learned about typecasting, which is the process of converting one data type into another. This is especially important when dealing with user inputs or performing arithmetic operations.

I practiced using functions like str(), int(), and float() to convert variables from one type to another. Working with user input helped me understand how python interprets and stores different types of data internally, which was useful for debugging and learning how python processes input.

To apply what I learned, I wrote a simple program. This activity taught me how critical proper data handling is and how user input can impact the program behavior and logic.

Overall, this topic gave me a stronger foundation in handling real-world input and understanding python's dynamic typing system.



### Internships Daily Diary (2025-26)

Week No: 4

Day: Wednesday

Date: 25/06/25

Topic :- conditional statements

Today, I practiced writing decision-making programs using if, elif, and else statement.

I explored basic logic structure such as:

- checking if a number is positive, negative or zero
  - Finding the greatest among three numbers
  - validating user login using predefined credentials
- While working on these, I learned how important proper indentation is in python, as it directly affects the programs control flow. Initially, I made a few logical errors, but repeated dry runs and hands-on practice helped me overcome them.

This topic sharpened my logical thinking and significantly improved my problem-solving abilities. Writing these conditional statements gave me more confidence in handling real-world scenarios using python.



Sadguru Balumama Shikshan Prasarak Mandal's

## K.P.PATIL INSTITUTE OF TECHNOLOGY

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

Approved by AICTE, DTE Mumbai & Govt. of Maharashtra, Affiliated to MSBTE Mumbai

### Internships Daily Diary (2025-26)

Week No: 4

Day: Thursday

Date: 26/06/25

Topic : Loops

Today, I explored loops in python and learned how to use both for and while loops effectively. I applied them in various programs such as :

- Printing numbers Patterns
- calculating factorials
- Generating multiplication tables

I also experimented with the range() function using different arguments to control loop iterations. At one point, I accidentally created an infinite loop using a while statement, which helped me realize the importance of setting correct loop conditions.

This hands-on practice showed me how loops can reduce repetitive code and improve efficiency. Understanding loops not only made my code cleaner but also only # strengthened my logical thinking and problem-solving approach.

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

Week No: 4

Day: Friday

Date: 27/06/25

Topic :- strings and lists

Today, I focused on learning about strings and lists in python. I explored various string functions such as `replace()`, `find()`, and `lower()`, and also practiced string slicing.

For lists, I used important methods like `append()`, `remove()`, `sort()`, and `pop()` to manipulate list elements. As a hands-on task, I created a mini contact list program.

Initially, I found negative indexing in both strings and lists a bit confusing, but with practice, I got the hang of it.

What I appreciated the most was how Python simplifies working with sequences. These are foundational concepts, yet extremely powerful and applicable in almost every real-world program.



### Internships Daily Diary (2025-26)

Week No: 4

Day: Saturday

Date: 28/05/25

Topic :- Functions

Today, I focused on understanding how to define and use functions in python. I started by creating simple functions to perform task like:

- checking if a number is even or odd
- calculating the area of a circle
- Greeting the user with a custom message

I also explored the difference between return values and print() statements, which helped me understand how functions can either display output or send data back to the calling code.

I practiced writing functions with:

- No arguments
- one or more arguments

I really enjoyed learning about functions because they add structure to the code and are essential for building larger programs efficiently.