







# **PYTHON LEARNING SCHEDULE**



(Note: Task submission deadline is 8pm Sunday every week)

If you found any Doubt related to content or given links below, you can contact: Kunal,Vishal(Sr.),Vikas.

## **Week 1:Basics of Python**

**(3-9 JULY 2023)**

Topics	Video Link	Blog Link
Python Syntax	 Python tutorial for ...	<a href="https://www.w3schools.com/python/python_syntax.asp">https://www.w3schools.com/python/python_syntax.asp</a>
Variables	 Python variables a...	<a href="https://www.w3schools.com/python/python_variables.asp">https://www.w3schools.com/python/python_variables.asp</a>
Data types	 Python variables a...	<a href="https://www.w3schools.com/python/python_datatypes.asp">https://www.w3schools.com/python/python_datatypes.asp</a>
Operators	 Operators In Pytho...	<a href="https://www.w3schools.com/python/python_operators.asp">https://www.w3schools.com/python/python_operators.asp</a>
Conditionals	 If statements in Py...	<a href="https://www.w3schools.com/python/python_conditions.asp">https://www.w3schools.com/python/python_conditions.asp</a>
Loops	 While loops in Pyt...	<a href="https://www.w3schools.com/python/python_loops.asp">https://www.w3schools.com/python/python_loops.asp</a>

	<p> For loops in Pytho...</p> <p> Nested loops in Py...</p>	<p><a href="https://www.w3schools.com/python/python_while_loops.asp">s.com/python/python_while_loops.asp</a></p> <p><a href="https://www.w3schools.com/python/python_for_loops.asp">https://www.w3schools.com/python/python_for_loops.asp</a></p>
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### **Task:**



**Fibonacci Sequence Generator:** Build a program that generates fibonacci numbers up to a specific limit.

**For Palindrome checker:** Build a program that determines whether a given string is palindrome or not.

**Submission link:** <https://forms.gle/f2fp4fxkFRz1AYT6A>

## **Week 2: Functions and Modules**

**(10-16 JULY 2023)**

Topics	Video link	Blog link
Define and use of functions	 <b>Functions in P...</b>	<a href="https://www.w3schools.com/python/python_functions.asp">https://www.w3schools.com/python/python_functions.asp</a>
Modules	 <b>What are Pyth...</b>	<a href="https://www.w3schools.com/python/python_mod">https://www.w3schools.com/python/python_mod</a>



		<a href="#">ules.asp</a>
Library	 Libraries and ...	<a href="https://www.geeksforgeeks.org/libraries-in-python/">https://www.geeksforgeeks.org/libraries-in-python/</a>

### **Task:**

**File Organizer:** Build a program that organizes files in a directory based on their extensions.

**Submission link:** <https://forms.gle/ZFtJbtqEUTReUMZQA>

### **Week 3: Data Structure** **(17-23 JULY 2023)**

Task	Video link	Blog link
List	 Python lists, sets, an...	<a href="https://www.w3schools.com/python/python_lists.asp">https://www.w3schools.com/python/python_lists.asp</a>
Sets	 Python lists, sets, an...	<a href="https://www.w3schools.com/python/python_sets.asp">https://www.w3schools.com/python/python_sets.asp</a>

Tuples	 <b>Python lists, sets, an...</b>	<a href="https://www.w3schools.com/python/python_tuples.asp">https://www.w3schools.com/python/python_tuples.asp</a>
Dictionary	 <b>Python dictionaries ...</b>	<a href="https://www.w3schools.com/python/python_dictionaries.asp">https://www.w3schools.com/python/python_dictionaries.asp</a>
Arrays	 <b>#26 Python Tutorial f...</b>	<a href="https://www.w3schools.com/python/python_arrays.asp">https://www.w3schools.com/python/python_arrays.asp</a>




### **Task:**

**Word frequency counter:** Build a program that counts the frequency of occurrence of each word of the given string.

**Submission link:** <https://forms.gle/Wvenj4ZaAzFRLc8K7>

### **Week 4: OOP**

**(31-6 AUGUST 2023)**

Task	Video Link	Blog Link
Classes	 Python class variables 	<a href="https://www.w3schools.com/python/python_classes.asp">https://www.w3schools.com/python/python_classes.asp</a>
Objects	 Python Object Oriented Pr...	<a href="https://www.w3schools.com/python/python_objects.asp">https://www.w3schools.com/python/python_objects.asp</a>

		<a href="https://www.w3schools.com/python/python_classes.asp">com/python/python_classes.asp</a>
Inheritance	<a href="#">Python inheritance</a> 👨‍👩‍👧 <a href="#">Python multilevel inheritance...</a> <a href="#">Python multiple inheritance...</a>	<a href="https://www.w3schools.com/python/python_inheritance.asp">https://www.w3schools.com/python/python_inheritance.asp</a>
Methods	<a href="#">Python method overriding ...</a> <a href="#">Python method chaining</a> 🔗	<a href="https://www.w3schools.com/python/python_polymorphism.asp">https://www.w3schools.com/python/python_polymorphism.asp</a>

### **Task:**

**Student Management:** Manage student information (like student name, roll no, address and all) by using Classes object and inheritance like student name, roll no, address and all.

**Submission link:** <https://forms.gle/3d6iSKWWL8NYLEoy5>

### **Week 5: File Handling and Exception Handling** (7-13 AUGUST 2023)

Topics	Video link	Blog Link
Read and write to files	<a href="#">Python read a file...</a> <a href="#">Python write a file...</a>	<a href="https://www.w3schools.com/python/python_file_open.asp">https://www.w3schools.com/python/python_file_open.asp</a>

		<a href="https://www.w3schools.com/python/python_file_write.asp">https://www.w3schools.com/python/python_file_write.asp</a>
Handle Exception	 Python exception...	<a href="https://www.geeksforgeeks.org/python-exception-handling/">https://www.geeksforgeeks.org/python-exception-handling/</a>
Manage Errors		<a href="https://docs.python.org/3/tutorial/errors.html">https://docs.python.org/3/tutorial/errors.html</a>

### **Task:**

**Simple Program to read from and write to files:** Write a program that schedules the deletion of files or directories at specific intervals or based on criteria like file size or last modified date

**File deletion scheduler:** Handle exception for different type of errors like invalid path, last modified date, file size

**Submission link:** <https://forms.gle/dtAPasFoVeicGpec6>