

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA

UNIVERSITY ESTABLISHED UNDER SECTION 3 OF UGC ACT 1956) ENATHUR,
KANCHIPURAM - 631 561

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



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Reg.No : 11249A369
Class : II B.E(CSE)
Course Code : BCSF243PQ0
Course Name : PYTHON PROGRAMMING LAB

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BONAFIDE CERTIFICATE

This is to certify that this is the bonafide record of work done by

Ms. TAMMIRA SRI SURYA SAI BRAHMAJI

with Reg. No 11249A369 done by of II-B.E.(CSE) in PYTHON PROGRAMMING for Lab
during the academic year 2025 -2026.

Station : ENATHUR

Date :

Staff-in-charge

Head of the Department

Submitted for the Practical examination held on _____

Examine-1

Examine -2

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CERTIFICATE OF COMPLETION

TAMMIRA SRI SURYA SAI BRAHMAJI

HAS SUCCESSFULLY COMPLETED THE COURSE

Intro to Programming

ON OCTOBER 15, 2025



ALEXIS COOK, HEAD OF KAGGLE LEARN



CERTIFICATE OF COMPLETION

TAMMIRA SRI SURYA SAI BRAHMAJI

HAS SUCCESSFULLY COMPLETED THE COURSE

Python

ON OCTOBER 12, 2025



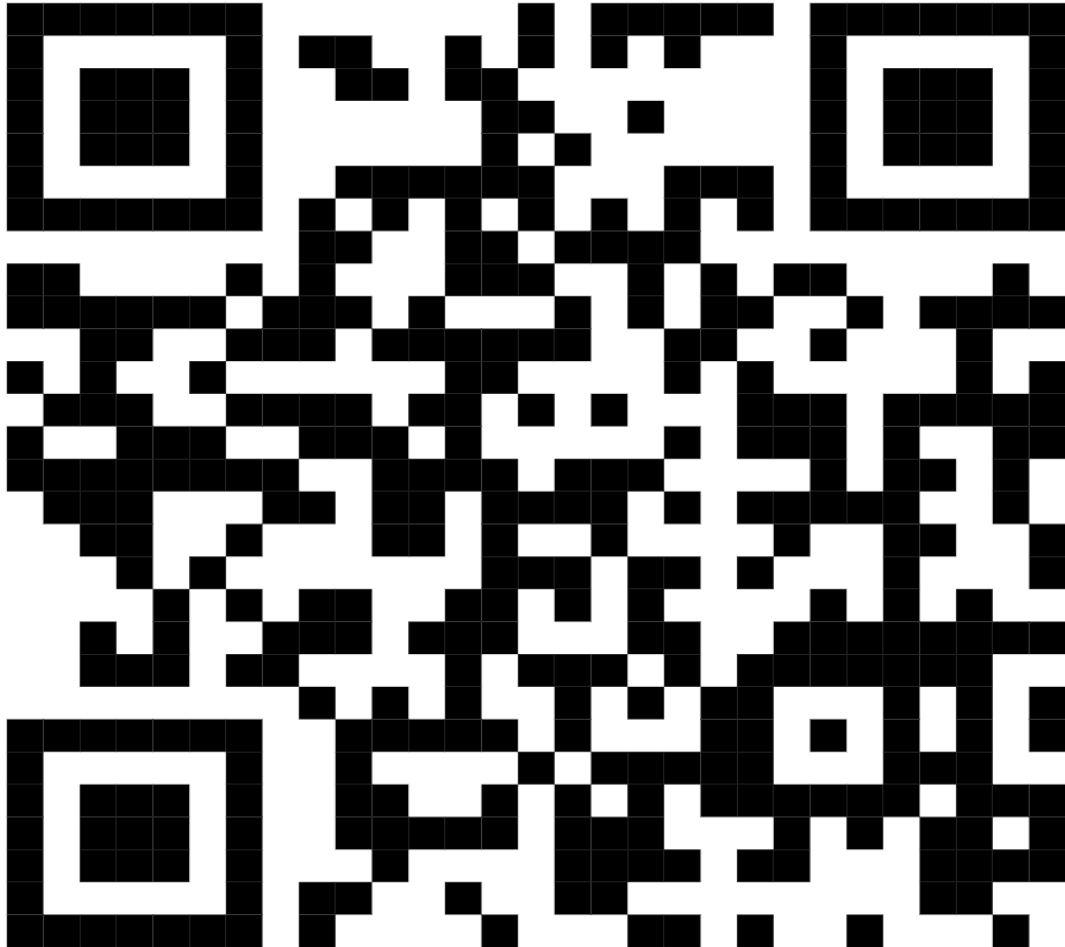
COLIN MORRIS, KAGGLE INSTRUCTOR



ALEXIS COOK, HEAD OF KAGGLE LEARN

github

<https://github.com/11249a369-sudo/python>



LIST OF PROGRAMS

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1	Calculation of Test Average: Write a python program to find the best of two test average marks out of three test's marks accepted from the user	07
2	Palindrome Check & Digit Occurrence Count: Develop a Python program to check whether a given number is palindrome or not and also count the number of occurrences of each digit in the input number.	10
3	Fibonacci sequence: Defined as a function F as $F_n = F_{n-1} + F_{n-2}$. Write a Python program which accepts a value for N (where $N > 0$) as input and pass this value to the function. Display suitable error message if the condition for input value is not followed.	12
4	Binary to Decimal & Octal to Hexadecimal Conversion: Develop a python program to convert binary to decimal, octal to hexadecimal using functions.	15
5	Sentence Statistics: Write a Python program that accepts a sentence and find the number of words, digits, uppercase letters and lowercase letters.	18
6	String Similarity: Write a Python program to find the string similarity between two given strings.	21
7	Insertion Sort & Merge Sort on lists: Write a python program to implement insertion sort and merge sort using lists.	23
8	Check Phone Number: Write a function called isphonenumber () to recognize a pattern 415-555-4242 without using regular expression and also write the code to recognize the same pattern using regular expression.	26
9	Search Phone Number & Email: Develop a python program that could search the text in a file for phone numbers (+919900889977) and email addresses (sample@gmail.com)	28
10	File Operations: Write a python program to accept a file name from the user and perform the following operations 1. Display the first N line of the file 2. Find the frequency of occurrence of the word accepted from the user in the file.	31

11	Zip operation on a folder: Develop a program to backing up a given Folder (Folder in a current working directory) into a ZIP File by using relevant modules and suitable methods.	33
12	Inheritance: By using the concept of inheritance write a python program to find the area of triangle, circle and rectangle.	35
13	Employee Details: Write a python program by creating a class called Employee to store the details of Name, Employee_ID, Department and Salary, and implement a method to update salary of employees belonging to a given department.	39
14	Polymorphism and Inheritance: Write a python program to find the whether the given input is palindrome or not (for both string and integer) using the concept of polymorphism and inheritance.	42
15	Spreadsheet Operations: Demonstrate python program to read the data from the spreadsheet and write the data in to the spreadsheet.	45
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17	Fetch weather data from the JSON: Write a python program to fetch current weather data from the JSON file.	50
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