

Python Practical's

1. From syllabus copy page no. 15 and 16.
2. Any one practical from 8, 9 and 10.

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Sr. No.	Practical	Date
1	<p>Create a program that asks the user to enter their name and their age. Print out a message addressed to them that tells them the year that they will turn 100 years old.</p> <p>Enter the number from the user and depending on whether the number is even or odd, print out an appropriate message to the user.</p> <p>Write a program to generate the Fibonacci series.</p> <p>Write a function that reverses the user defined value.</p> <p>Write a function to check the input value is Armstrong and also write the function for Palindrome.</p> <p>Write a recursive function to print the factorial for a given number.</p>	14/07/2020
2	<p>Write a function that takes a character (i.e. a string of length 1) and returns True if it is a vowel, False otherwise.</p> <p>Define a function that computes the <i>length</i> of a given list or string.</p> <p>Define a <i>procedure</i> <code>histogram()</code> that takes a list of integers and prints a histogram to the screen. For example, <code>histogram([4, 9, 7])</code> should print the following:</p> <pre> **** ***** </pre>	21/07/2020
3	<p>A <i>pangram</i> is a sentence that contains all the letters of the English alphabet at least once, for example: <i>The quick brown fox jumps over the lazy dog</i>. Your task here is to write a function to check a sentence to see if it is a pangram or not.</p> <p>Take a list, say for example this one: <code>a=[1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]</code> and write a program that prints out all the elements of the list that are less than 5.</p>	4/08/2020
4	<p>Write a program that takes two lists and returns True if they have at least one common member.</p>	11/08/2020

	<p>b. Write a Python program to print a specified list after removing the 0th, 2nd, 4th and 5th elements.</p> <p>c. Write a Python program to clone or copy a list</p>	
5	<p>a. Write a Python script to sort (ascending and descending) a dictionary by value.</p> <p>b. Write a Python script to concatenate following dictionaries to create a new one. Sample Dictionary : dic1={1:10, 2:20} dic2={3:30, 4:40} dic3={5:50,6:60} Expected Result : {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}</p> <p>c. Write a Python program to sum all the items in a dictionary</p>	24/08/2020
6	<p>a. Write a Python program to read an entire text file.</p> <p>b. Write a Python program to append text to a file and display the text.</p> <p>c. Write a Python program to read last n lines of a file.</p>	15/09/2020
7	<p>a. Design a class that store the information of student and display the same</p> <p>b. Implement the concept of inheritance using python</p> <p>c. Create a class called <code>Numbers</code>, which has a single class attribute called <code>MULTIPLIER</code>, and a constructor which takes the parameters <code>x</code> and <code>y</code> (these should all be numbers). i. Write a method called <code>add</code> which returns the sum of the attributes <code>x</code> and <code>y</code>. ii. Write a class method called <code>multiply</code>, which takes a single number parameter <code>a</code> and returns the product of <code>a</code> and <code>MULTIPLIER</code>. iii. Write a static method called <code>subtract</code>, which takes two number parameters, <code>b</code> and <code>c</code>, and returns <code>b - c</code>. iv. Write a method called <code>value</code> which returns a tuple containing the values of <code>x</code> and <code>y</code>. Make this method into a property, and write a setter and a deleter for manipulating the values of <code>x</code> and <code>y</code>.</p>	22/09/2020
8	Write a program to implement exception handling.	12/10/2020

9	<p>a. Try to configure the widget with various options like: bg="red", family="times", size=18</p> <p>b. Try to change the widget type and configuration options to experiment with other widget types like Message, Button, Entry, Checkbutton, Radiobutton, Scale etc.</p>	19/10/2020
10	<p>a. Design a simple database application that stores the records and retrieve the same.</p> <p>b. Design a database application to search the specified record from the database.</p> <p>c. Design a database application to that allows the user to add, delete and modify the records.</p>	26/10/2020