

| Sr. No | List of Practicals |
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| 1. | Write a simple Python Program to INPUT two variables and print Addition, Subtraction, Multiplication and Division of both numbers. |
| 2. | Write a program to input 2 number and an arithmetic operator. Display the result accordingly. |
| 3. | Write a program to input Principal Amount, Rate and Year and display Simple Interest. |
| 4. | Write a program to input Principal Amount, Rate and Year and display Compound Interest |
| 5. | Write a program to input radius of a circle, and print area of that circle. |
| 6. | Write a program to input a number and print whether it is Even or Odd Number. |
| 7. | Write a program to input age of person and display message as follows - If age < 12 print You are Kid - If age between 12 to 17 print You are teenager - If age between 18 to 60 print you are Adult If age > 60 print You are Senior Citizen |
| 8. | Write a Python Program to input marks of 4 subjects and display Total, Percentage, Result and Grade. If student is fail (<40) in any subject then Result should be displayed as "FAIL" and Grade should be displayed as "With Held**" |
| 9. | Write a program to input a number and display Table of that number. |
| 10. | Write a program to print all numbers which are divisible by 7 between 1 to 200. |
| 11 | Write a program to input a number and display Factorial of that number. For example, Factorial of 5 = $5 * 4 * 3 * 2 * 1 = 120$. |
| 12 | Write a program to input a number and display whether number is prime or not. |
| 13 | Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included). |
| 14 | Write a program to print all prime numbers between 1 to 100. |
| 15 | Write a program to print factorial number using function |
| 16 | Write a program to create list in such a way that it should add square roots of number between 1 to n in the list... At the end, |

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| | the list shall be displayed. Example : [1, 4, 9, 16, 25,] |
| 17 | Write a program to create dictionary in such a way that it should add number as a key and square root of number as a value between 1 to n in the dictionary... At the end, the data shall be displayed. Example : {1:1, 2:4, 3:9, 4:16, 5:25, ...} |
| 18 | Write a program which accepts a sequence of comma-separated numbers from console and generate a list and a tuple which contains every number. |
| 19 | Write a Python Program to create a function which accepts 3 arguments. (2 numbers and one arithmetic operator). Display answer accordingly |
| 20 | Write a Python Program to create function which accepts one argument as a number and return Factorial value of the number. (Function must be RECURSIVE function, not loop) |
| 21 | Write a program to create lambda function to add two numbers and display total. |
| 22 | Write a Python Program accept comma separated string and display tokens using split(), rsplit() and splitlines() |
| 23 | Write a program that accepts a comma separated sequence of words as input and prints the words in a comma-separated sequence after sorting them alphabetically. Suppose the following input is supplied to the program :without,hello,bag,world Then, the output should be :bag,hello,without,world |
| 24 | Write a program that accepts sequence of lines as input and prints the lines after making all characters in the sentence capitalized. If you enter blank line, shall be treated as exit of program. All the upper case converted lines shall be added to list one by one |
| 25 | Write a program to generate random password which shall combine upper case alphabets, lower case alphabets, digits and special characters. You shall prepare separate dictionary items called "lower", "upper", "digits", "special" and values shall be stored accordingly. From this array, based on the user's choice random password shall be generated. You shall make sure that atleast one character is selected from all specified choices. Use dictionary / list as applicable |
| 26 | Write a program to read names from keyboard and store into text file |
| 27 | Write a program to read any text file line by line |
| 28 | Write a program to read text file having number and display all numbers with total and average at the last. (Manually prepare a file having some numbers and then read it) |

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| 29 | <p>Write a program to compute the frequency of the words from the input. The output should output after sorting the key alphanumerically.</p> <p>Suppose the following input is supplied to the program: "Hello There this is Python. Python is good"</p> <p>Then output shall be as follows :</p> <p>Hello : 1 There : 1 This : 1 is : 2 Python : 2 Good : 1</p> |
| 30 | Write a Python Program that creates a student class with appropriate members and functions to add student, display student, delete student and search student (Use lists or tuple or named tuple, whatever applicable) |
| 31 | Write a Python Program that creates a Student class with various methods. Use setattr() and getattr() on class object |
| 32 | <p>Define a class which has at least two methods:</p> <p>getString: to get a string from console input</p> <p>printString: to print the string in upper case.</p> |
| 33 | Write a Python Program that creates a class with function overloading |
| 34 | <p>Write a Python Program that creates a class and inherit into another class</p> <p>(Base Class : Student with rollno, name, gender, age)</p> <p>(Derived Class : Course with coursename, duration, fee)</p> <p>Use appropriate functions for each class</p> |
| 35 | Write a Python program to overload __str__ method of class and print class values in string format. You can do overloading as per your choice but shall be done through __str__ method only. |
| 36 | Write a program that uses all parts of exception handling in python (try, except, else, finally) |
| 37 | <p>Write a file handling program which shall store Name and BirthDate, it should have 3 choices as follows</p> <ol style="list-style-type: none"> 1) Add Birth Date 2) List All Details 3) Show Today's Birth Days 4) Exit <p>The moment you start the program, it shall first display list of persons who have got birthday today.</p> |

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| 38 | <p>Create a class of Library with following attributes (title, author, publisher, edition, year of publication, price, type (reference or text book)</p> <p>Class shall have following methods addBook(), modifyBook(), deleteBook(), searcBook(), listBooks(), sortedView()</p> <p>Prepare menu drive program with the data stored in file. Main menu shall have above choices and sorted view shall have further choice of sorting as title, author, publisher, year of publication and price which shall display the data accordingly) (Use list to store the data as follows [[Core Python Programming WesleyChun Premier Press 2 2005 550 Text], [Pythong Programming for Beginners Michael Premier Press 2 2015 660 Reference], [Head First Python PaulBerry O Reilly 4 2014 550 Reference]]</p> <p>Data is separated by pipe sign</p> |
| 39 | Create simple project in Django with "Hello World" page |
| 40 | Create simple login application using Django |