

**SHREE SWAMI ATMANAND SARASWATI
INSTITUTE OF TECHNOLOGY
COMPUTER ENGINEERING DEPARTMENT**



Practical List

| Sr.No | List of Experiment |
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| 1 | SET 1 |
| | Write a python program to implement simple calculator(should include addition, subtraction, multiplication, division, floor division and exponent operation) |
| 2 | Demonstrate use of type() and id() function with different data types of python. |
| 3 | Write a program to find those numbers which are divisible by 5 and multiplication of 3, between 200 and 400 (both are included). |
| 4 | Write a program to print the extension of the given filename. |
| 5 | Write a program to print 1 st and last colour from the given list. List1=['red', 'blue', 'green', 'yellow', 'white', 'black'] |
| 6 | Set-2 |
| | Write a program to check whether an alphabet is a vowel or consonant. Take the input character from the user. |
| 7 | Write a python program to generate empty list and perform <ul style="list-style-type: none"> • insertion of elements in it using append(), extend() and insert() • print length of list, value of element located at index 2, occurrences of element located at index 2 and print reverse list • Check whether specific value is available in list using membership operator • Deletion of elements using pop(), remove() and clear() methods |
| 8 | Write a python program to generate tuple of integer values and print it's length, summation of all elements of tuple, minimum value from tuple, maximum value from tuple and also print tuple in sorted order. |
| 9 | Write a python program to generate empty dictionary and perform following operations on it. <ul style="list-style-type: none"> • add values in it with keys. • print dictionary • Get value of specific key (if key not found then default value should be returned) • sort content of dictionary |
| 10 | Write a python program function to generate all the factors of number. (number is entered by user). |

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| 11 | Write a program which iterates the integers from 1 to 10. For multiplication of 4 print “computer” instead of the number and for multiplication of 5 print “Department”. For numbers which are multiples of both 4 and 5 print “Computer Department”. |
| 12 | Write a program to perform following Operation: <ul style="list-style-type: none"> • Print the digits from 1 to 20 in the form of list.(using range()) • Print all the even numbers from the above list. |
| 13 | Write a Python program to add ‘ing’ at the end of the given string (length should be at least 3). If the given string is already ends with ‘ing’ then add ‘ly’ instead. If the string length of the given string is less than 3, leave it unchanged. |
| 14 | Set-3 |
| | Write a program to find the factorial of given number using recursive function. |
| 15 | Write a python function to calculate the sum of three given numbers, if the values are equal then returns trice of their sum. |
| 16 | Write a program to generate Fibonacci series for N terms using function. |
| 17 | Write a python program to perform the following operation for addition, subtraction, multiplication, division and modulo using function. |
| 18 | Write a python program to print the length of each line in the file. |
| 19 | Write a python program to print first 15 bytes from file using with open. |
| 20 | Set-4 |
| | Draw a graph which satisfied following condition. <ul style="list-style-type: none"> • $x = \text{range}(10)$ • $y = \cos(x)$ • graph should be “dot-dashed” • Give the label to x-axis “this is X dimension” • Give the label to y-axis “this is Y dimension” • Give the Title to graph “This is My First Graph” |
| 21 | Draw a graph which satisfied following condition for given practical. <ul style="list-style-type: none"> • Give the limit to x-axis (-2,12) • Give the limit to y-axis (-2,2) |
| c) | Display Annotation |
| 22 | Plot Line plot with formatting to display two student’s data with last 4 semester SPI. also use legend in plot , different line styles and marker characters. |
| 23 | Write a python program to do line plotting, scatter plotting, Bar chart, box plot , histogram and pie chart. |
| 24 | Write Python program to plot time series with trends of sales. |
| 25 | Write a python program for plotting of geographical data using basemap. |
| 26 | Write a python program to Generate directed and undirected graph. |

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| 27 | Set-5 |
| | Python Program demonstrate following : <ul style="list-style-type: none"> • Read content of text file using uploading, streaming and sampling methods from “Colors.txt” file • Read Content of CSV file • Read data from Excel sheet |
| 28 | Write a python program to plot image and display it’s information. Generate another image from previous image by cropping it. |
| 29 | Write a python program to perform XML Parsing. |
| 30 | Write a python program to remove duplicate data from dataset. |
| 31 | Write a python program to find missing data and perform encoding of it. |
| 32 | Set-6 |
| | Write python program for sorting and shuffling data of data frame. |
| 33 | Write a python program for paring XML using XPath. |
| 34 | Write a python program for stemming and remove stop words from a sentence. |
| 35 | Set-7 |
| | Write a python program to print telephone numbers placed in sentences using regular expressions. |
| 36 | Write a python program to create basic adjacency matrix from the NetworkX- supplied graph and Draw graph of it. |
| 37 | Write a python program to create applied visualization for EDA using boxplots and perform t-tests. |
| 38 | Write a Python program for observing parallel coordinates. |

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