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| **List of Experiments** | | | |
| **S.**  **No.** | **Program** | **Date** | **Page No.** |
| **1** | **Python program to implement the following :**   1. To perform all the arithmetic operations 2. To print biggest number among three numbers 3. To check whether the given number is even or odd 4. To print first 10 natural numbers in reverse order 5. To print multiplication table 6. To find the factorial of the given number 7. To generate Fibonacci series up to n terms 8. To ask the user to enter two integers one on each line say   x and y, if „x‟ is larger than „y‟ print “first” store the value of „x‟ in a variable highest, if „y‟ is larger than „x‟ print “second” ,store the value of  ‟y‟ in a variable highest, if they are equal, print “same”, store either as the highest, finally, print the square of the highest. |  |  |
| **2** | **Python program to implement the following using list:**   1. To print list of numbers from key board and print their sum. 2. To ask the user to enter a list of numbers and print their sum 3. To ask the user to enter a list of elements and print their sum 4. To read the list of numbers and sort them ascending order 5. To read the list of numbers and sort them descending order 6. To print the list of the numbers and remove duplicates from the given list 7. To read a list of numbers from keyboard and print the common elements from the two lists 8. To read the list of numbers from the keyboard and print the minimum and maximum element in the list 9. To read list of numbers and count number of positives, negatives and zeros in the given list 10. To ask the user to enter a list of integers separated by spaces then convert this into a list of integers but square each element and finally print the list |  |  |
| **3** | **Python program to implement the following using Strings:**   1. To read list of strings from keyboards and sort them in alphabetical order 2. To read a string from the keyboard then print the following: 3. String without the first character. 4. String without the last character. 5. Print every alternate character of the string starting from first. 6. The string in reverse.   c) To ask the user to enter a string and convert this to lower case, count the number of occurrences of each character in the string then print the result in sorted order of the character |  |  |

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| **4** | **Python program to demonstrate the following using Dictionary:**   1. To read student details (regdNo, name) and append them into the dictionary and display it 2. To ask the user for a list of integers separated by spaces and for each integer, store the string version as the key and the square of the integer value as the value in a dictionary and print the resulting dictionary 3. To implement student management system for the following:    1. Insert student record 2) Display student record 3) Search student record   4) Delete student record 5) Update student record |  |  |
| **5** | **Python Program to implement using Meta Characters / patterns:**   1. To create mapping from 3 character month name to month number   .Ask the user for a 3 character month code lower /upper mixed then print the month number corresponding to the month the user entered.   1. To use a while loop to generate the numbers from 1 to 10. If a number divisible by 3 is found, print\*\*\*,if a number divisible by 5 is found,   print\*\*\*\*\*otherwise print the number. |  |  |
| **6** | **Python Program to implement using Regular Expressions :**   1. To find the pattern “THE” in the given string or not 2. To replace all the occurrences of the 5 with five 3. To filter all strings that do not contain „e‟ 4. To find all the integers of a given string and display their sum 5. A string that has „a‟ followed by „0‟ or more b‟s 6. To replace five first 2 occurences of given string 7. To find all 3,4 and 5 characters words in a given string or paragraph 8. To check that a string contain only a certain set of characters „a to z‟   , „A to Z‟,‟0 to 9‟. Read a list of strings from keyboards i)Matches „a‟ that has „a‟ followed by 3 b‟s   1. Matches a string has an „a‟ followed by exactly 2 to 3b‟s 2. String that starts with one uppercase letter followed by an lower case letters |  |  |
| **7** | **Python program to implement the following using date tine Modules:**   1. To print current date and time 2. To print date from the keyboard and convert into date format 3. To convert given date from keyboard to date format in different ways 4. To add five days to the given date 5. To print yesterday ,today and tomorrow 6. To print five days after the given date |  |  |

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| **8** | **Write a python program to demonstrate User Defined Module** |  |  |
| **9** | **Python program to implement the following using Files :**   1. To create a new filename “cec.txt” and write 5 lines of content to it and display it 2. To create a new filename “bec.txt” and write some content to it and   display it |  |  |
| **10** | **Write a Python program to demonstrate functions in python** |  |  |
| **11** | **Write a Python program to demonstrate functions in python** |  |  |
| **12** | **Write a Python program that demonstrates the concept of Class and**  **Object** |  |  |
| **13** | **Python program to implement the following using Functions:**   1. To demonstrate functions in python 2. To demonstrate positional arguments in functions 3. To demonstrate function argument with default values in python 4. To demonstrate python keyword argument in functions in python   e)To demonstrate python function with arbitrary arguments |  |  |
| **14** | **Write a Python program to demonstrate Finally keyword in Python** |  |  |
| **15** | **a)Write a Python program to demonstrate Constructor**  **b)Write a python program to demonstrate default constructor.** |  |  |
| **16** | **Write a Python program that demonstrates the concept of Class and Object** |  |  |
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