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| **Sn** | **List of Lab Experiments**  **Lab Title** | **Date**  **(2082)** | **Signature** |
| Lab 1 | Install & Setup Python Environment | 02/31 |  |
| Lab 1 | Create a simple script that performs basic arithmetic operations. | 02/31 |  |
| Lab 1 | Practice using data types like lists, dictionaries, and sets. Write a Python program to create a list  of integers, append values, sort the list, and remove duplicates.Perform operations like slicing a string and list manipulation. | 02/31 |  |
| Lab 1 | Write a Python program that stores student names as keys and their marks as values in a  dictionary. Print the average marks and the name of the top scorer. | 02/31 |  |
| Lab 2 | Practice control structures using if-else conditions. | 03/ |  |
| Lab 2 | Write a Python function that takes two numbers as input and returns their sum, difference,  product, and quotient. | 03/ |  |
| Lab 2 | write program using recursion technique. | 03/ |  |
| Lab 3 | Perform basic read and write operations. | 03/08 |  |
| Lab 3 | Write a Python program to read data from a CSV file and display the content. Then, modify the  program to write the output to a JSON file.  . | 03/08 |  |
| Lab 3 | Write a Python class called Student with attributes like name, roll number, and marks. Create  methods to display student details and calculate the average marks. | 03/08 |  |
| Lab 3 | Create a base class Vehicle with attributes like make and model. Derive a class Car from Vehicle  with additional attributes like mileage and capacity. Create objects of both classes and display their  details | 03/08 |  |
| Lab 4 | Create a basic Flask application with a route that returns “Hello, World!” when accessed via the browser | 03/09 |  |
| Lab 5 | Develop a web form using HTML and Flask to capture user input (e.g., name, email) and display the input on another page. | 03/10 |  |
| Lab 6 | Write a Flask application that connects to a MySQL database using mysql-connector with Template integration. | 03/14 |  |
| Lab 7 | Write a Flask application that connects to a MySQL database using SQLAlchemy. Create a table called students with columns id, name, age, and grade. Insert records and fetch data from the database to display on a webpage. | 03/16 |  |
| Lab  8 | Implement HTML drop-down to display dynamic options. Dynamic HTML tables product list and product details using flask. | 03/25 |  |
| Lab  9 | Implementing REST API in Flask. | 03/30 |  |
| Lab  9 | Develop a login page using flask that store information in a database ,where password must be in hashed form. | 03/30 |  |
| Lab  9 | Sending an Email using Flask. | 03/30 |  |

**Advanced Web Technology**

**Lab Report**

6th Semester, BE Computer

LAB Sheet

**Submitted To**

Instructor

**Mr. Sunil Bahadur Bist**

Signature:

National Academy of Science and Technology (NAST)

Uttar Behadi-04, Dhangadhi

**Submitted By**

Name:

Roll No:

Submission Date: