B P College of Computer Studies, Gandhinagar
S V Institute of Computer Studies, Gandhinagar
(Constituent Colleges of Kadi Sarva Vishwavidyalaya)

Project Work – IV
SEC204-2C
Submission Guidelines

- The submission will be in **Power Point Presentation** format.

- The **format** of Presentation should be strictly followed as given.

- The **file name** of the Presentation should be <u>PW-IV_DivNo.</u> **<u>Example: PW-IV_A1</u>**.

- The submission should be **emailed** to the guide by only one member of group.

- The presentation should be submitted in two formats .**ppt** and .**pdf**

- The **presentation of all the groups should be unique**.

- The **Index** given in the Presentation Format as shown below should be **strictly followed**:

  Group Details

  > **Project Title**

  > **Task 1:** 1.1. Program Definition / Code/ Diagram

  > > 1.2. Output / Explanation

  > **Task 2:** 2.1. Program Definition / Code/ Diagram

  > > 2.2. Output / Explanation

  > **Task 3**: 3.1. Program Definition / Code/ Diagram

  > > 3.2. Output / Explanation

  > **Task 4:** 4.1. Program Definition / Code/ Diagram

  > > 4.2. Output / Explanation

  > **Task 5:** 5.1. Program Definition / Code/ Diagram

  > > 5.2. Output / Explanation

  > **Project Work Leaning's**

- **The three Subject Choices in which the presentation can be given are**:

  1. **Subject Choice I:** Python Programming
  2. **Subject Choice II:** Web Design and Development
  3. **Subject Choice III:** Operating System

- Any **one Subject can be selected** from the above listed subjects Choices.

- The details of all the Follow the **Subject Project Tasks** of the Selected Subject.

Subject Choice Guidelines

Subject Choice I:

Python Programming - Application Development

Task 1: Implementation of Control Statement of Python.
1.1 Create a program that implements any of control & loop statements like if, elif, else, Match case, while loop and for loop.

Examples: Student grade from their percentage, print 1 to 100 even numbers using loop

1.2 Display Output

Task 2: Implementation of Data Structure of Python
2.1 Create a one program that implements concept any of list, tuple, set, dictionary, string.

Examples: create different type of list and manipulate using slicing, extend ,copy etc. function

2.2 Display Output

Task 3: Implementation of Function and file Handling
3.1 Create a one program that implements a user defined function, lambda function or file handling function to read and write from file

Examples: create user define function to pass integer argument and return square.

3.2 Display Output

Task 4: Implementation of Class and Objects
4.1 Create a one program that implements class and create inheritance in python.
Examples: create a class result which inherit class student and prepare result.

4.2 Display Output

Task 5: Implementation of exception handling
5.1 Create a one program that implements exception handling in python using try-except-else-finaly.
Examples: Write a program to implement exception handling for divide by zero and value error exception

5.2 Display Output

****

Subject Choice II:

Web Design and Development - Web Application Development

Task 1: Implementation of Control Statement of WDD.
    1.1 Create a one program that implements any of control & Loop statements using any one if, if – else, nested if, Switch, for loop, while loop, Do-while loop.
    1.2 Display Output

Task 2: Implementation of Array of types and user define of WDD.
    2.1 Create a one program that implements of any array types to using Array .
    2.2 Display Output

Task 3: Implementation of string function, math function and date function of WDD.
    3.1 Create a one program that implements string function, math function, date function.
    3.2 Display Output

Task 4: Implementation of variable function and super global variable.
    4.1 Create a one program that implement of variable and super global function.
    4.2 Display Output

Task 5: Implementation of connection with database and insert, update, delete.
    4.1 Create a one program that implements of connection database and create one table in insert, update and delete using dynamic website using PHP and MySQLi.
    4.2 Display Output

****

<u>Subject Choice III:</u>

Operating System- Shell Scripting Development

Task 1: Implementation of Basic Linux commands.
    1.1 Implement basic linux commands with syntax and appropriate example.
       Examples: to change directory, to make directory, to remove directory etc.
    1.2 Display Output

Task 2: Implementation of Advanced Linux Commands
    2.1 Implement advanced linux commands with syntax and appropriate example.
       Examples: finding patterns in files OR counting lines OR counting line etc.
    2.2 Display Output

Task 3: Implementation of Advanced Linux Commands for performing operations on file
    3.1 Implement advanced linux file commands with syntax and appropriate example.
       Examples: sorting the content of file OR comparing file OR changing information in file etc...
    3.2 Display Output

Task 4: Implementation of conditional statements using shell script
    4.2 Create a shell script program to implement any one of- if, if else, else if ladder, nested if statement.
       Examples: create a shell script to check given number is odd or even OR given year is leap year or not.
    4.2 Display Output

Task 5: Implementation of Looping Statements using shell script
    5.1 Create a shell script program to implement any one of- for, while, until loop
       Examples: Display 1 to 10 number using for loop OR Factorial of given number etc…
    5.2 Display Output