

# Software Development Fundamentals Lab – I [15B17CI171]

## Assignment Sheet

### Week 4 [27 sep -2 oct]

#### Lab A

**Note:** Students are advised to submit their solutions to respective lab faculty.

**File type:** Document (containing your code and a screenshot of the execution window)

**File Name:** rollno\_first name\_w4A.doc

**Topic:** Switch case & Loops

Write a C Program to do the following:

- Q1. Print day of week name using switch case.
- Q2. Find maximum between two numbers using switch case.
- Q3. Print number of days in a month using switch case
- Q4. Create a calculator application which can perform addition, subtraction, multiplication and division operations. (Use switch statement in this program)
- Q5. Using Switch statement, write a program that displays the following menu for the food items available to take order from the customer:
  - B= Burger
  - F= French Fries
  - P= Pizza
  - S= SandwichesThe program inputs the type of food and quantity. It finally displays the total charges for the order according to following criteria:
  - Burger = Rs. 200
  - French Fries= Rs. 50
  - Pizza= Rs. 500
  - Sandwiches= Rs. 150
- Q6. Calculate the sum of first n natural numbers using while and do while loop.
- Q7. Print a multiplication table (from 1 to 10) of the integer value entered by the user.
- Q8. Print the “Product-of-Digits” of the number entered by the user.
- Q9. Introduce Simulation of Loops using Virtual Labs for Factorial Calculation and Height of Pyramid.

Link: <https://cse02-iiith.vlabs.ac.in/exp/advanced-control-flow/procedure.html>

Read procedure and click on simulation button.