**Software Engineering Assignment**

**Module – 3.2 C Language – Programming with C**

**(Q1) Write a program to make Simple Calculator (to make addition, subtraction, multiplication, division and modulo)**

**Answer:**

* Refer Program (File name: SimpleCalculator\_SwitchCase.c)

**(Q2) Write a program to swap two numbers without using third variable.**

**Answer:**

* Refer Program (File name: SwappingNumber.c)

**(Q3) Write a program to find number is even or odd using ternary operator.**

**Answer:**

* Refer Program (File name: NumberFind.c)

**(Q4) Write a program to show**

**1. Monday to Sunday using switch case**

**Answer:**

* Refer Program (File name: Day.c)

**2. Vowel or Consonant using switch case**

**Answer:**

* Refer Program (File name: VowelOrConsonant.c)

**(Q5) Looping Programs:**

**1. Write a Program to print 972 to 897 using for loop**

**Answer:**

* Refer Program (File name: NumberLoop.c)

**2. Write a Program to take 10 no. input from user and find out**

**- How many even numbers are there**

**- How many odd numbers are there**

**- Sum of even numbers**

**- Sum of odd numbers**

**Answer:**

* Refer Program (File name: NumberInput.c)

**3. Write a Program to print table up to given numbers**

**Answer:**

* Refer Program (File name: MultiplicationTable.c)

**(Q6) Write a program to print factorial of given number.**

**Answer:**

* Refer Program (File name: Factorial.c)

**(Q7) Write a program to print Fibonacci series up to given numbers.**

**Answer:**

* Refer Program (File name: Fibonacci.c)

**(Q8) Write a program to print number in reverse order e.g.: number = 64728 🡪 reverse = 82746.**

**Answer:**

* Refer Program (File name: ReverseNumber.c)

**(Q9) Write a program to find out the max from given number (e.g. No.: 1562 – Max number is 6).**

**Answer:**

* Refer Program (File name: MaxNumber.c)

**(Q10) Write a program make a summation of given number (e.g. 1523 – Ans: 11).**

**Answer:**

* Refer Program (File name: SummationOfNumber.c)

**(Q11) Write a program you have to make a summation of first and last digit (e.g. 1234 Ans: 5)**

**Answer:**

* Refer Program (File name: SumFirstLastDigit.c)

**(Q12) Pattern Program**

**(1) Number Pattern – 1**

1

1 0

1 0 1

1 0 1 0

1 0 1 0 1

**Answer:**

* Refer Program (File name: NumberPattern1.c)

**(2) Number Pattern – 2**

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

**Answer:**

* Refer Program (File name: NumberPattern2.c)

**(3) Alphabet Pattern – 1**

A

B C

D E F

G H I J

K L M N O

**Answer:**

* Refer Program (File name: AlphabetPattern1.c)

**(4) Alphabet Pattern – 2**

A

A B

A B C

A B C D

A B C D E

**Answer:**

* Refer Program (File name: AlphabetPattern2.c)

**(5) Star Pattern – 1**

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**Answer:**

* Refer Program (File name: StarPattern1.c)

**(6) Star Pattern – 2**

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**Answer:**

* Refer Program (File name: StarPattern2.c)