

Subject : Introduction to Programming

ETCS 108

ITP Assignment-1

Q1. Explain Algorithm & Flowchart with example.

Q2. Write short notes on:

- a. C Data types
- b. Identifiers
- c. Keywords
- d. Constants

Q3. Write a program in C language showing the use of Selection statements.

Q4. Explain expressions, arithmetic operation, relational and logic operations, C assignment statements, extension of assignment of the operations.

ITP Assignment-2

Q1. Write a program showing use of switch in C Language.

Q2. Write a program showing the concept of loops.

Q3. Write a program showing use of getchar and putchar.

Q4. Write short notes on :

- a. typedef
- b. enumerated data types

### ITP Assignment-3

- Q1. What is an array ? write a program to implement the concept of arrays.
- Q2. What is a Pointer ? Explain the concept of passing pointer in C Language.
- Q3. Write a program to swap two numbers using call by value & call by reference.
- Q4. Explain dynamic memory allocation in detail.

### ITP Assignment-4

- Q1. What is a Structure ? Explain in detail.
- Q2. Write a program to apply following operations on string:
- a. Strcpy()
  - b. Strlen()
  - c. Strrev()
- Q3. What is a file ? Explain different file operation used in C.