



JECRC UNIVERSITY

Assignment III

UNIT 3

B.Tech. (Computer Science and Engineering)

Semester:I

Subject: CPLT (DCO013A)

SECTION A

(2 * 5 = 10 Marks)

Q1.What is the difference between the int and float data types in C? Give examples of situations where each would be appropriate.

Q2.Explain the purpose of the #include directive in C. Give an example of how it is used with a standard library header file.

Q3.What is the difference between a constant and a variable in C? Give examples of how each is declared.

Q4.Write a C expression to calculate the area of a rectangle given its length and width.

Q5.What is the purpose of the main() function in a C program?

SECTION B

(7 * 3 = 21 Marks)

Q1.Explain the difference between the = and == operators in C. Provide examples of how each is used.

Q2.What is an arithmetic expression in C? Give examples of arithmetic operators and how they are used in expressions.

Q3.Write a C program that prompts the user for their name and age, then prints a greeting message including their name and age.

SECTION C

(11 * 3 = 33 Marks)

Q1.Discuss the different types of logical operators in C. Give examples of how they are used in logical expressions.

Q2.Write a C program that calculates the sum of the first 10 natural numbers.

Q3.Explain the concept of operator precedence in C. Give examples of how operator precedence affects the evaluation of expressions.

Thank You
