**DCA1107 Programming in C**

**Assignment Set-I**

Q1: Explain the role of format specifiers in the printf function in C. Provide examples of different format specifiers and their corresponding data types.

Q2: In C programming, what are the decision control statements, and can you give an example of each?

Q3: Explain the concept of arrays in C programming. How are arrays declared and initialized? Discuss with examples.

**Assignment Set-II**

Q4: Explain null-terminated strings in C programming. Discuss how they are different from a regular character array. Provide an example to illustrate your answer.

Q5: Explain the concept of recursion in C programming. What are the necessary conditions for a function to be recursive? Provide an example of a recursive function in C that calculates the factorial of a number.

Q6: Discuss the selection sort algorithm with an example. Write a C program to implement selection sort.

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