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Description automatically generated**COMSATS University Islamabad (Lahore Campus)**

**Assignment 1– SPRING 2023**

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| Course Title: | Programming Fundamentals | Course Code: | CSC103 | Credit Hours: | 4(3,1) |
| Course Instructor: | Abdul Karim Shahid | Programme Name: | BS Computer Science | | |
| Due Date: | 15-03-2023 | Maximum Marks: | 10 | | |
| **Important Instructions / Guidelines:**  Submission date is 15th March 2023. Submit your assignment in the form of a report. Your report should contain Title page, problem statement and solution/discussion. Your doc file name should be your registration no. Upload your file at MS Teams. | | | | | |

**Question No 1. Marks: 10**

***CLO: 1; Bloom Taxonomy Level: <Understanding>***

**Learning Objectives:** Demonstrate knowledge of basic concepts of planning in computer programming.

# Assignment Statement:

Discuss the importance of Algorithms in computer programming. Describe and list down the rules for available algorithm writing styles. Write algorithm using any two styles you listed in your report for the following problem statement.

Calculate salary of an employee if basic salary (BS) is taken from the user. The salary should be calculated according to the following given rules.

If basic salary is less than 30000,

House Rent Allowance (HRA) = 75% of BS

Medical Allowance (MA) = 10% of BS

Tax = 5% of B.S

If BS is between 30000 and 60000 inclusive

House Rent Allowance (HRA) = 50% of BS

Medical Allowance (MA) = 15% of BS

Tax =10% of B.S

If BS is greater than 60000, then

House Rent Allowance (HRA) = 40% of BS

Medical Allowance (MA) = 20% of BS

Tax =15% of B.S

Formula for Salary calculation is Salary= BS+ HRA+MA-Tax