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**INF211**

**ALGORITHMS AND PROGRAMMING**

**PROJECT-5**

**PROJECT-5:**  **Loop Statements in C**

**Deadline is November 20, 2020 at 23:00.**

**Projects that are not delivered on time are not accepted.**

**Upload the project to the Project 5 assignment section of the INF211 class.**

**The questions can be asked to course lecturer Dr. Tuba Gözel and teaching assistant Serhat Dinleyen under the Project 5 announcement of INF211 class Week6 channel.**

**The questions should be answered in this document. This document and the C code files for the questions should be uploaded to the assignment section.**

**The code filenames should be formatted as ID\_N\_P5\_Q#.**

***Note:***

* ***Do not forget to write the meaning of what you do in the code as a comment.***
* ***You must also send the code files.***
* ***Code Filename should include school ID, the first letter of student’s whole name (registered name in the student information system), Project Number and Question Number.***

***Filename format should be* ID\_FirstLetterofName\_P#\_Q#**

***Example: The code filename of Veli Zeki Doğan for question 1 should be* 201029999\_VZD\_P5\_Q1.C**

***Attention! Code filename that does not fit format will not be evaluated and takes zero grade.***

***Questions:***

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| 1. **Write a program to calculate the value of sin(x) using expansion. Limit will be determined by user to expand the series. Draw the flowchart of program.**        1. **Write a program to process a collection of daily high temperatures. It will take 24 temperature values for one day. These values will be taken from user and will be in centigrade. Your program should count and print the number of hot days (high temperature 85 or higher), the number of pleasant days (high temperature 60–84), and the number of cold days (high temperatures less than 60). It should also display the category of each temperature and calculate the average temperature of the day and print it on the screen. Draw the flowchart of program.**      1. **Write a program that computes the payroll for a company for N employees. Daily Pay for per employee will be calculated as pay=hours\*rate. For each employee, the number of hours worked per day and the number of days worked a week will be entered by user. Rates values will be entered by users for each employee. Program will print the total payroll for company and calculate the average daily cost of workers and print it on the screen. Draw the flowchart of program.** |

**ABOUT THE PROJECT**

This project file is prepared for the INF211 Algorithms and Programming I given in the Department of Electronic Engineering of Gebze Technical University.

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| **Process** | **Prepared By** |
| Date: 20.10.2020 | Serhat DİNLEYEN |