

Procedural Programming Laboratory

Lab 9

Part 1: Recursive Functions

The factorial function is used frequently in probability models. For example the factorial of the number 10 is:

$$10! = 10*9*8*7*6*5*4*3*2*1$$

Write a program that reads an integer value from the command prompt and displays the factorial for that value which is calculated using recursive methods.

Part 2: Structures and File Access

Write a program that defines a structure to hold employee records. The employee records should contain the following details:

- Employee Name
- Employee Number
- Hours per week
- Hourly Rate

The program should first display if there are any employee records currently in "Employee.txt".

Then the program should allow users to specify the number of new employee they need to add. Then they are asked to enter the new employee details.

At the end of the program the employee records should be written to a file called "Employee.txt".

Note: The previous contents of the file should not be overwritten

You should submit your design, your code and a sample of the input and output in a single MS Word file to muddle (for Part 2 only).

Deadline: 27th November 2016 at 6pm