MANİSA CELAL BAYAR UNIVERSITY

Introduction to Programming

The Project Report

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The Project Report Subjects:

Write C codes. The first program does m-th degree Summation. Also, that program does two different ways. (recursive and iterative). The second program does full sentence control. Namely, has the sentence got 26 different English letters? And, the third program does some matrix operations. Namely, transposition of matrix, addition of matrices and multiplication of matrices.

Production Process:
We made a work plan after we had learned the topics of the project assignment. And, we completed project times both of us at appropriate. When we studied functions and learned void function. Also, we were brushing up on information's about matrices. And, we made project.

What did we do?

In the first C code, first we created an algorithm in our minds. After that, we made real. Of course, we wrote a main function. After that, you had wanted two functions and we wrote two functions from us to you. These functions are recursive and iterative. Also, these functions are affecting to main function.

In the second C code, first of all we created an algorithm in our minds. After that, we made real. Of course, we wrote a main function. Also, we learned ASCII table and relationship between ASCII and numbers. We used to "strlen" function. Because, we find how many letters the sentence consists of. We do lower cases to upper cases for we could do what we want. After that, we find the number of lowercase letters. And, the same number of letters have been removed from the sum by ours. Finally, if sum is 26, we find fully sentence. Unless sum is 26, we find not fully sentence. And, that program find the top repeat letter.

In the third C code, first of all we created an algorithm in our minds. After that, we made real. Of course, we wrote a main function. After that, we're using rand function, we produce new random numbers. And, we used a lot of function. And, that program can do different matrices operations. Furthermore, we write lots of cycles and that program has lots of for loops and while loops. Also, the program has got a "srand (time (NULL));" line. And, in this way, we increased the diversity. We wrote double-dimensional arrays for created matrices.