**DOKUZ EYLUL UNIVERSITY**

**ENGINEERING FACULTY**

**DEPARTMENT OF COMPUTER ENGINEERING**

**CME1251 PROJECT BASED LEARNING – I**

**FINAL REPORT**

**PROJECT – II**

**SHAPER**

**by**

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# CHAPTER ONE

PROGRESS DESCRIPTION

First of all, in the first week we created a table of fifteen columns and three lines and displayed thirty numbers at random in addition to moving the cursor using the

arrow keys. Then in the second week we moved the numbers up and down using the WS keys, while in the third and fourth week we moved the numbers to the right and left using the AD keys in addition to clearing the matching numbers that are side by side and giving the player the score due accordingly

# CHAPTER TWO

TASK SUMMARY

## Completed Tasks

**Sefa Çelik: I tried to write all the codes of the project, but I had problems with matching numbers.**

**Alaa Eldin Elreis:** We have done all the tasks required of us in this project, and in this project I have created the table as well as randomly displaying thirty numbers in it.

**Romina Dehghani Mohammadi:** In this project I was able to create screen.Cursor movement, and write code for the initial table with randomly generated numbers. The

I wrote the code to move the random numbers up, down, right and left by using the WASD keys.

## Incomplete Tasks: Reasons and Explanations

**Sefa Çelik, Alaa Eldin Elreis and Romina Dehghani Mohammadi:**

We have done the all tasks required of us

## Additional Improvements ~~to the Project~~

**Sefa Çelik :**

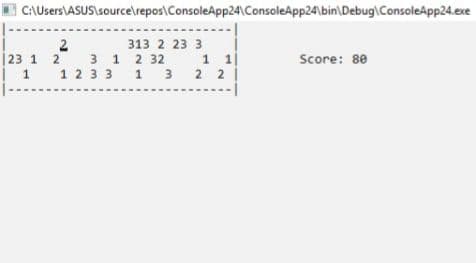
**Alaa Eldin Elreis :**

**Romina Dehghani Mohammadi :**

# CHAPTER THREE

EXPLANATION of algorıthms

## Screenshots



## Algorithms and Solution Strategies

**Sefa Çelik: At first, I created arrays as string but we were told to use integer arrays and I converted it to int arrays. Then I had to change the logical expressions all conditional cases. After I was able to handle these, the first problem I encountered was that the newly formed number wold disapear if it matched. I solved it using an extra while loop. After passing this, I had problems with the new numbers being moved and the matching ones disapperaring. I thought about it for a long time but I could not find it then I consulted with my group. But they could not come up with a solution either. Unfourtunately, our project encountered errors at the last stage and could not be resolved.**

**Alaa Eldin Elreis**: At first I used a two-dimensional array to create the table, but then we used three one-dimensional arrays to create the table, and in the rest of the stages we used the (for ) and (while) loops in addition to the conditional if

**Romina Dehghani Mohammadi:** I used three “arrays” each 30 in length, then I used three “random”. The first random to select the array The second random to select

the location of the number and the third random to select the number between 1 and 3. I used “if” and “for” to move the numbers up, down, left and right.

**CHAPTER FOUR**

PROBLEMS ENCOUNTERED

**Sefa Çelik:** The first problem was that the numbers printed at the same index. The second and easiest problem I faced was the curser overflowing the screen. Then the problem I faced was that if the number match, they disappear and two new numbers is added.

**Alaa Eldin Elreis**: I had a problem with moving numbers with WASD keys as I could not pass this section

**Romina Dehghani Mohammadi:** One of the problems I had with the project was that it came with exams, and that gave us less time to work on the project. And another

problem is that it took me a long time to write the code to move left and right, and finally I was able to solve the problem by using “temp” and “if”.

# CHAPTER FIVE

conclusıon

**We have benefited from this project. And we learned and used a lot of new things that we didn't use before, such as arrays, moving the cursor, etc.**

**In addition to teamwork, we have gained new experiences due to working as a team.**

**On top of that, we're getting more and more understanding of how (while, for) loops and other functions work**

REFERENCES

https://www.w3schools.com/cs/index.php

Poster/Web page of the Project

