

# CENG 322 Programming Assignment 1 Report

In this programming assignment, I have a golden.txt file, which is the correct file used to check students' homework assignments. It contains 100 lines of "Hello World".

```
GNU nano 6.2 golden.txt
Hello World
Hello World
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Hello World
```

<b>^G</b> Help	<b>^O</b> Write Out	<b>^W</b> Where Is	<b>^K</b> Cut	<b>^T</b> Execute
<b>^X</b> Exit	<b>^R</b> Read File	<b>^\</b> Replace	<b>^U</b> Paste	<b>^J</b> Justify

### Scenario 1:

In this scenario, I ran the script with the following command: `bash pa1.sh 100 golden.txt subm`, initially without the grading folder. In the subm folder, there are 4 submitted files:

```
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ ls grading/
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ ls subm/
322_h1 123456789.sh 322_h1 333666999.sh 322_h1 987654321.sh dilay.sh
```

322\_h1\_123456789.sh: This file has 99 lines of "Hello World" and 1 line of "Hi". Therefore, this student should receive a score of 99.

322\_h1\_333666999.sh: This script encountered a timeout error.

```
322_h1_987654321.sh: This file has 10 lines of "Hello World".
```

dilay.sh: This script encountered an incorrect file format error.

```
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ bash pa1.sh 100 golden.txt subm
Creating grading folder...
Checking arguments..
4 student submitted their homework
Grading process for subm/322_h1_123456789.sh started
id is 123456789
Grading process for subm/322_h1_333666999.sh started
id is 333666999
Timeout has occurred
Grading process for subm/322_h1_987654321.sh started
id is 987654321
Grading process for subm/dilay.sh started
Incorrect file name
```

Inside of the log.txt

```
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ cat log.txt
333666999: Too long execution
Incorrect file format: subm/dilay.sh
```

Inside of the results.txt

```
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ cat result.txt
Student ID : 123456789 Grade: 99
Student ID: 333666999 Grade: 0
Student ID : 987654321 Grade: 10
```

Inside of the grading folder

```
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ cd grading/
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1/grading$ ls
322_h1_123456789_out.txt 322_h1_333666999_out.txt 322_h1_987654321_out.txt
```

## Scenario 2 :

In this scenario correct output file does not exists

```
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ bash pa1.sh 100 goldecn.txt subm
Checking arguments..
4 student submitted their homework
Correct output file does not exist
```

## Scenario 3:

In this scenario submission folder doesn't exists

```
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ bash pa1.sh 100 golden.txt submn
Checking arguments..
Submission folder does not exist
```

## Scenario 4 :

In this scenario submission folder is empty

```
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ bash pa1.sh 100 golden.txt sub_empty/
Checking arguments..
Submission folder is empty
```

## Scenario 5:

In this Scenario I haven't got any execution permission for the 322\_h1\_123456789.sh file

```
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ chmod 666 subm/322_h1_123456789.sh
(base) dilaygulhan@dilaygulhan-TULPAR-T5-V21-7:~/ceng322_pa1$ bash pa1.sh 100 golden.txt subm
Checking arguments..
4 student submitted their homework
Grading process for subm/322_h1_123456789.sh started
Changed the permission of subm/322_h1_123456789.sh to executable
id is 123456789
```

## References:

<https://stackoverflow.com/questions/10028820/bash-wait-with-timeout>

<https://stackoverflow.com/questions/27236891/diff-command-to-get-number-of-different-lines-only>

I use [Zhilong Jia](#)'s answer in my code .