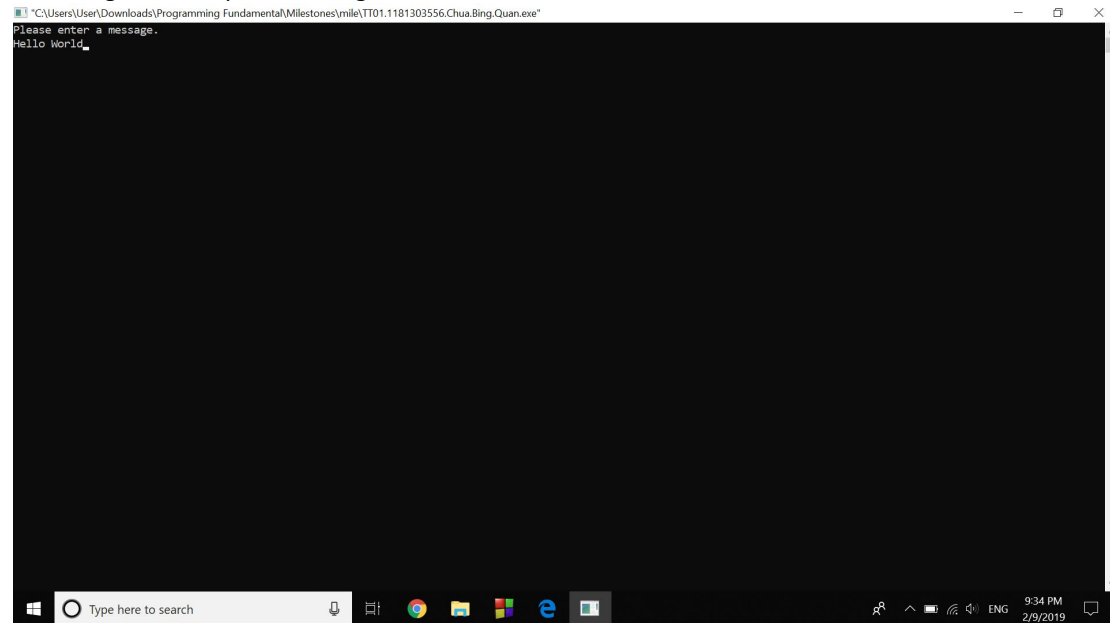


Programming Fundamental Milestone 1
2019/20 Trimester 1
Chua Bing Quan 1181303556
TC01, TT01

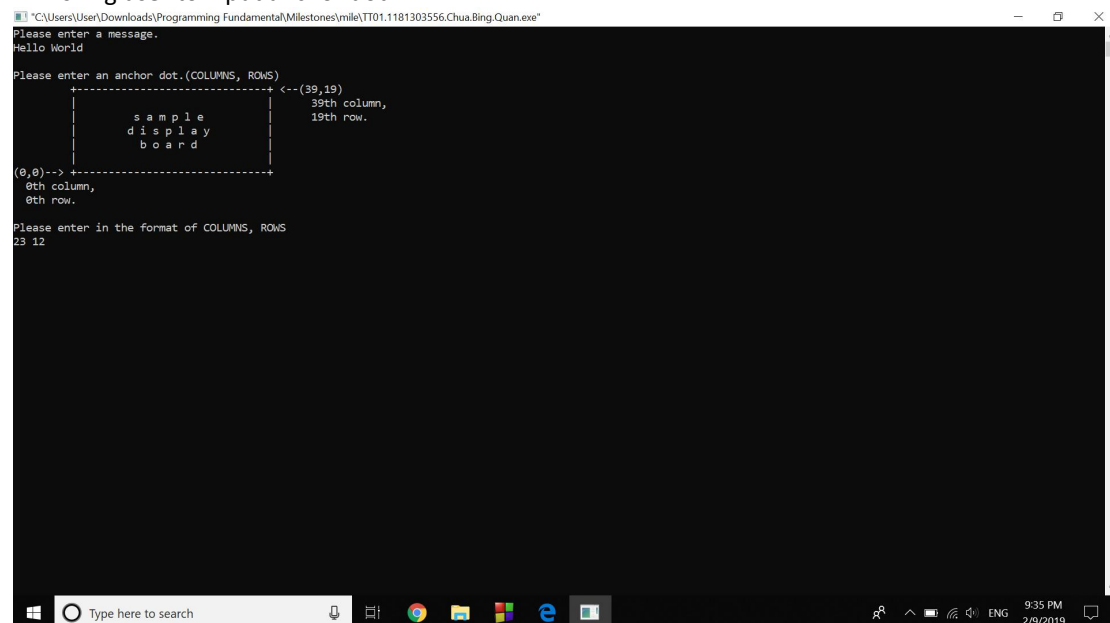
1. Asking user to input a message.



```
"C:\Users\User\Downloads\Programming Fundamental\Milestones\mile\TT01.1181303556\Chua.Bing.Quan.exe"  
Please enter a message.  
Hello World_
```

The screenshot shows a Windows command prompt window with a black background. The title bar indicates the file path: "C:\Users\User\Downloads\Programming Fundamental\Milestones\mile\TT01.1181303556\Chua.Bing.Quan.exe". The prompt asks the user to "Please enter a message." and the user has entered "Hello World_". The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right shows the date and time as 9:34 PM on 2/9/2019.

2. Asking user to input anchor dot.



```
"C:\Users\User\Downloads\Programming Fundamental\Milestones\mile\TT01.1181303556\Chua.Bing.Quan.exe"  
Please enter a message.  
Hello World  
Please enter an anchor dot.(COLUMNS, ROWS)  
<--(39,19)  
39th column,  
19th row.  
sample  
display  
board  
(0,0)-->  
0th column,  
0th row.  
Please enter in the format of COLUMNS, ROWS  
23 12
```

The screenshot shows the same Windows command prompt window as above, but with more output. After the initial "Hello World" message, the program prompts the user to "Please enter an anchor dot.(COLUMNS, ROWS)". It then displays a "sample display board" which is a rectangular grid of asterisks. To the right of the grid, it shows the coordinates "<--(39,19)" and "39th column, 19th row.". Below the grid, it shows "(0,0)-->" and "0th column, 0th row.". Finally, it prompts the user to "Please enter in the format of COLUMNS, ROWS" and the user has entered "23 12".

3. Asking moving direction for the message.

```
"C:\Users\User\Downloads\Programming Fundamental\Milestones\mile\TT01.1181303556.Chua.Bing.Quan.exe"
Please enter a message.
Hello World

Please enter an anchor dot.(COLUMNS, ROWS)
+-----+ <--(39,19)
|               | 39th column,
|   s a m p l e | 19th row.
|   d i s p l a y |
|   b o a r d   |
+-----+
(0,0)--> +-----+
|               |
|   0th column, |
|   0th row.    |
+-----+

Please enter in the format of COLUMNS, ROWS
23 12

Please enter moving direction:
1-LEFT
2-RIGHT
3-UP
4-DOWN
5-STATIONARY
1
```

4. Asking the user for time step.

```
"C:\Users\User\Downloads\Programming Fundamental\Milestones\mile\TT01.1181303556.Chua.Bing.Quan.exe"
Please enter a message.
Hello World

Please enter an anchor dot.(COLUMNS, ROWS)
+-----+ <--(39,19)
|               | 39th column,
|   s a m p l e | 19th row.
|   d i s p l a y |
|   b o a r d   |
+-----+
(0,0)--> +-----+
|               |
|   0th column, |
|   0th row.    |
+-----+

Please enter in the format of COLUMNS, ROWS
23 12

Please enter moving direction:
1-LEFT
2-RIGHT
3-UP
4-DOWN
5-STATIONARY
1
The message will be moving to the LEFT.

Please enter time steps:
100
```

5. Asking user for speed of refresh cycle.

```
"C:\Users\User\Downloads\Programming Fundamental\Milestones\mile\TT01.1181303556.Chua.Bing.Quan.exe"
Please enter a message.
Hello World

Please enter an anchor dot.(COLUMNS, ROWS)
+-----+ <--(39,19)
|               | 39th column,
|   s a m p l e   | 19th row.
|   d i s p l a y   |
|   b o a r d       |
+-----+
(0,0)--> +-----+
|               |
|   0th column,   |
|   0th row.       |
+-----+

Please enter in the format of COLUMNS, ROWS
23 12

Please enter moving direction:
1-LEFT
2-RIGHT
3-UP
4-DOWN
5-STATIONARY
1
The message will be moving to the LEFT.

Please enter time steps:
100

Please enter speed of refresh cycle.
(in a scale of 1~10, with 10 being the fastest):
10
```

6. Display message.

```
"C:\Users\User\Downloads\Programming Fundamental\Milestones\mile\TT01.1181303556.Chua.Bing.Quan.exe"

# # ##### # #
# # # # # #
# # # # # #
##### # # #
# # # # # #
# # # # # #
# # ##### #####
```

