

Milestone 4 Example Bootstrap Output

I Example Bootstrap Output:

A. Before you begin

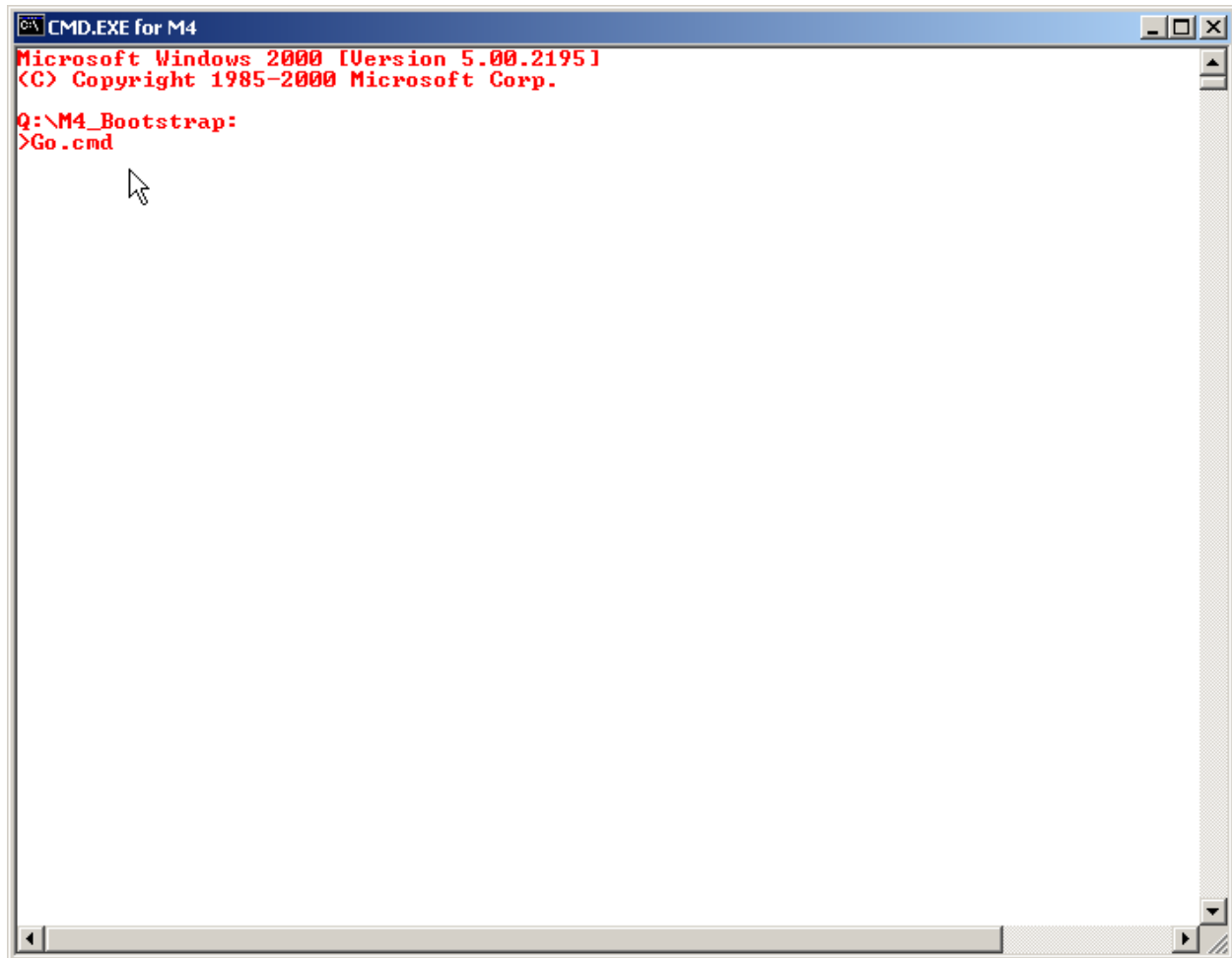
Ensure that all the necessary Microsoft Services are running (just like you did for M3)
before you begin the steps shown here.

Re-Run the MakeAll.cmd from M3 **before you begin the steps shown here.**

B. Unzip and Open the Initial Command Prompt:

To start things off, do the following:

- Unzip the M4 bootstrap somewhere (You **must use** a pathname with **NO SPACES** in it)
I used Q:\ as the example here, so it created a directory named Q:\M4_Bootstrap
- open a command prompt (Start->Run->CMD)
- Change the drive letter and directory to the M4_Bootstrap directory you just created
e.g. type:
 Q: <enter>
 then type:
 cd M4_Bootstrap <enter>
- Run the command:
 type Go.cmd<enter>



```
CMD.EXE for M4
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

Q:\M4_Bootstrap:
>Go.cmd
```

II Bootstrapping M4

The bootstrapping process consists of three steps, controlled by a single batch file (Go.cmd). Each step prompts you for a Y/N before running and displays a brief description (waiting for you to hit enter after reading it). This is done so that you can re-run part of the bootstrap at a later time if necessary. For example, if the Database Instance is running—but the Analysis Services instance is not running, then the first step should succeed, but second step will fail. In this case, you can simply fix the problem and then run Go again (skipping the first step by saying "N").

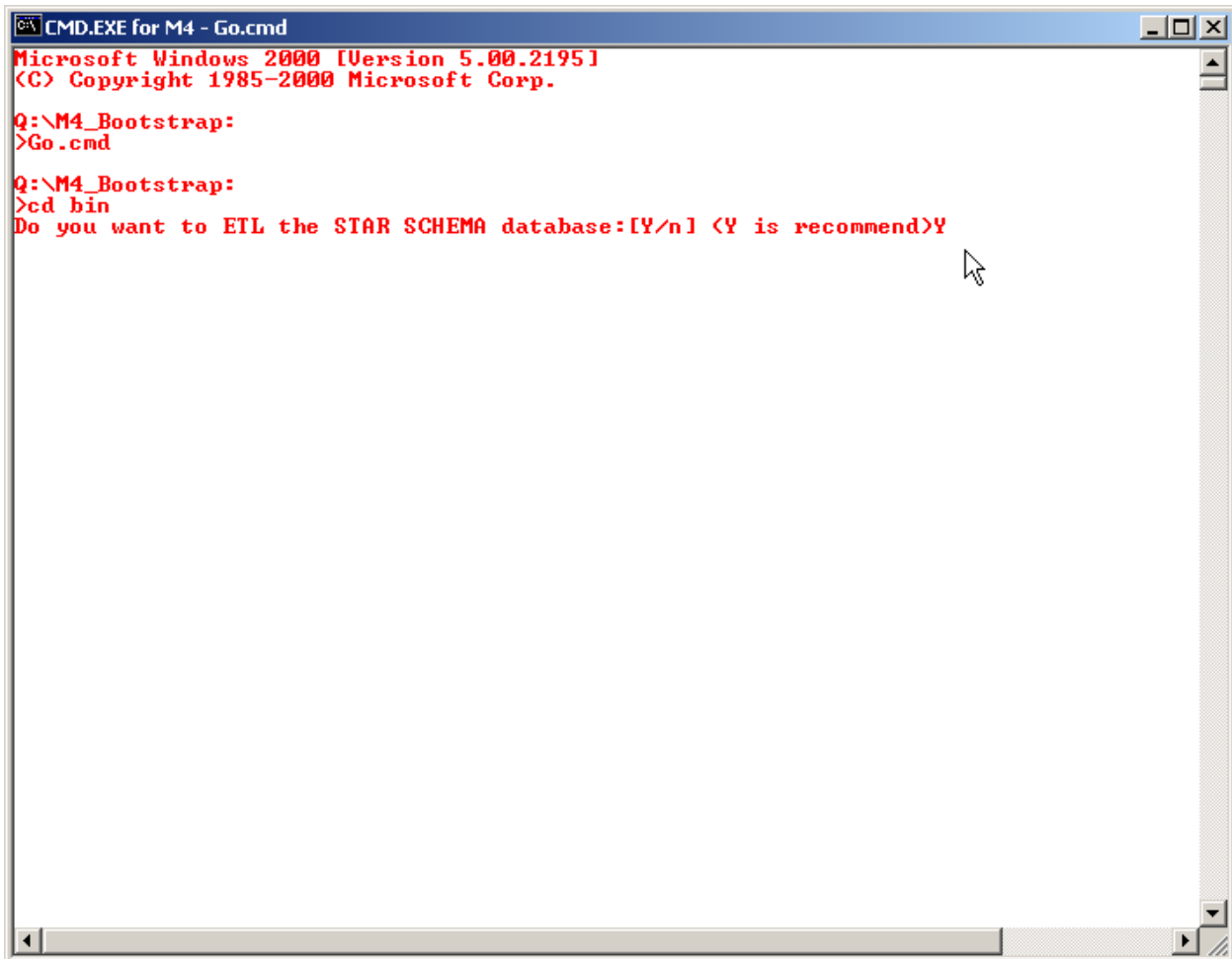
The example output in the screenshots shown here was captured from an earlier semester's M4 output. That said, the output you see should be similar (but not identical) to the screenshots shown here.

A. Starting the First Task: Running the ETL into the Star

The first thing you will be asked is if you need to ETL the data. This will essentially do the same thing that your M3 submission did, but it will do some things differently, and also load the Fact table.

1. Do you want to ETL the Star?

You should say Y to this prompt, and then hit enter.



```
CMD.EXE for M4 - Go.cmd
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

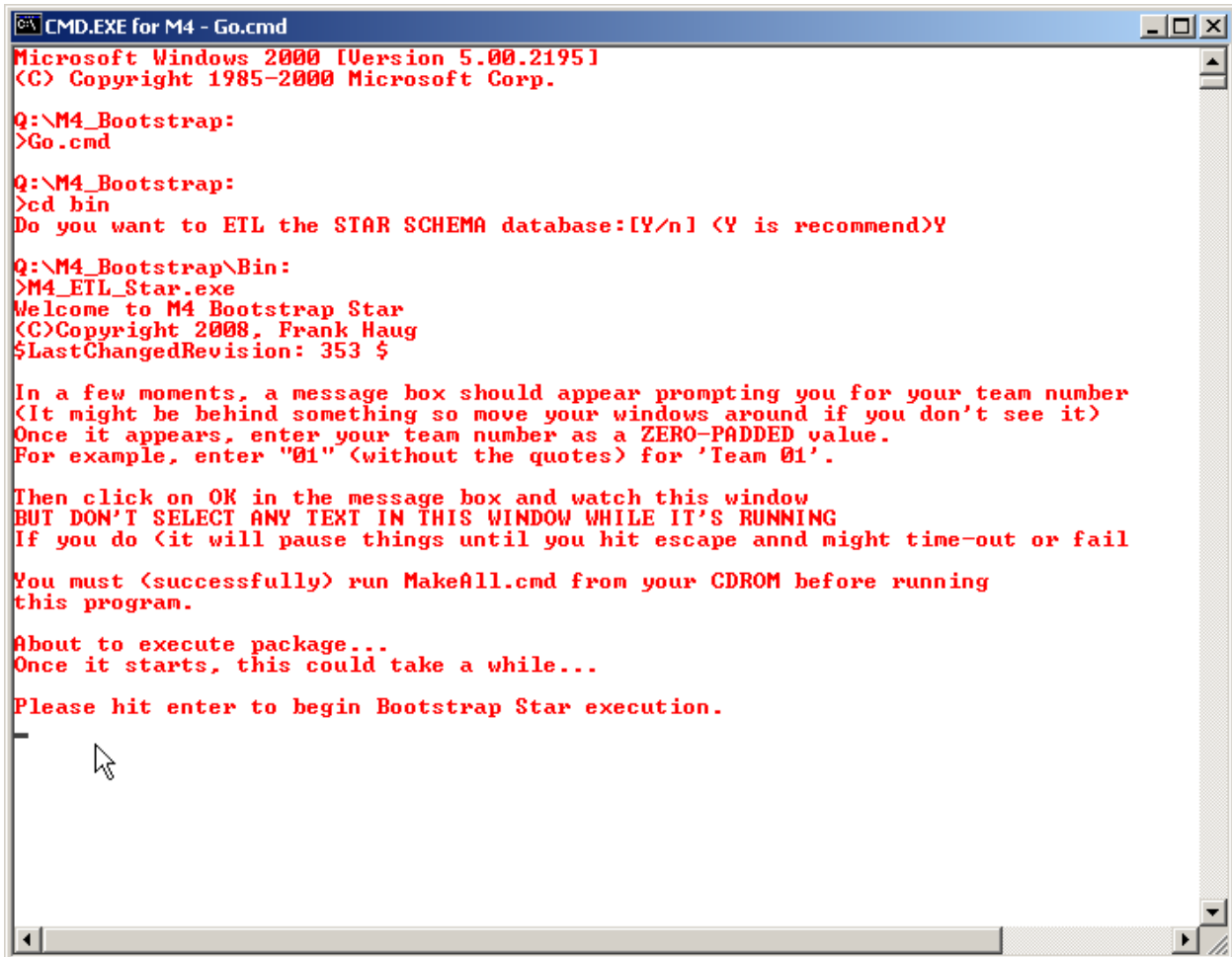
Q:\M4_Bootstrap:
>Go.cmd

Q:\M4_Bootstrap:
>cd bin
Do you want to ETL the STAR SCHEMA database:[Y/n] (Y is recommend)>Y
```

2. Hit Enter to Begin ETL

Next, you will see a description of what is coming next, and a prompt to hit ENTER after you are done reading it.

Hit Enter once you have read it.



```
CMD.EXE for M4 - Go.cmd
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

Q:\M4_Bootstrap:
>Go.cmd

Q:\M4_Bootstrap:
>cd bin
Do you want to ETL the STAR SCHEMA database:[Y/n] <Y is recommend>Y

Q:\M4_Bootstrap\Bin:
>M4_ETL_Star.exe
Welcome to M4 Bootstrap Star
(C)Copyright 2008, Frank Haug
$LastChangedRevision: 353 $

In a few moments, a message box should appear prompting you for your team number
<It might be behind something so move your windows around if you don't see it>
Once it appears, enter your team number as a ZERO-PADDED value.
For example, enter "01" <without the quotes> for 'Team 01'.

Then click on OK in the message box and watch this window
BUT DON'T SELECT ANY TEXT IN THIS WINDOW WHILE IT'S RUNNING
If you do <it will pause things until you hit escape and might time-out or fail

You must <successfully> run MakeAll.cmd from your CDROM before running
this program.

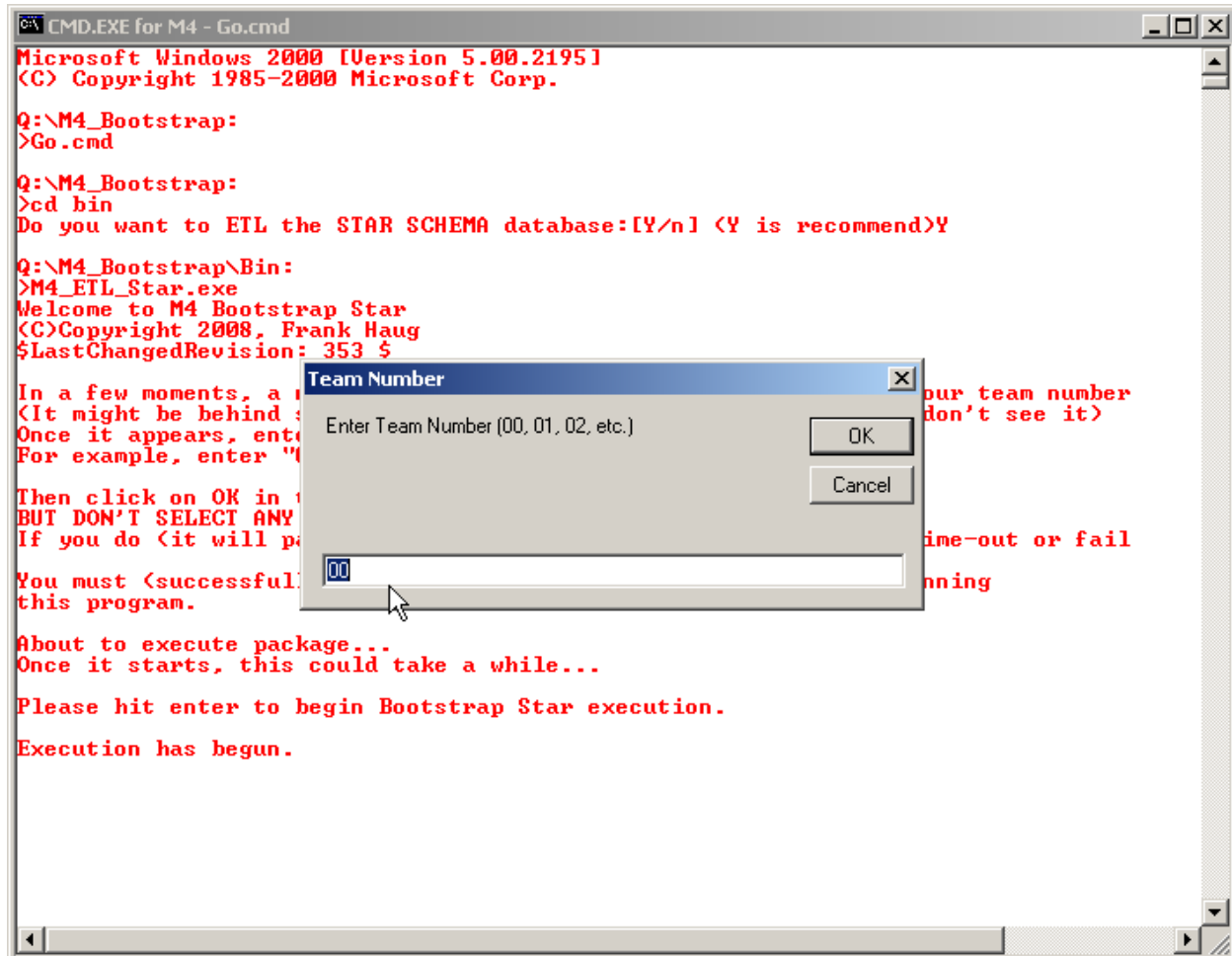
About to execute package...
Once it starts, this could take a while...

Please hit enter to begin Bootstrap Star execution.


```

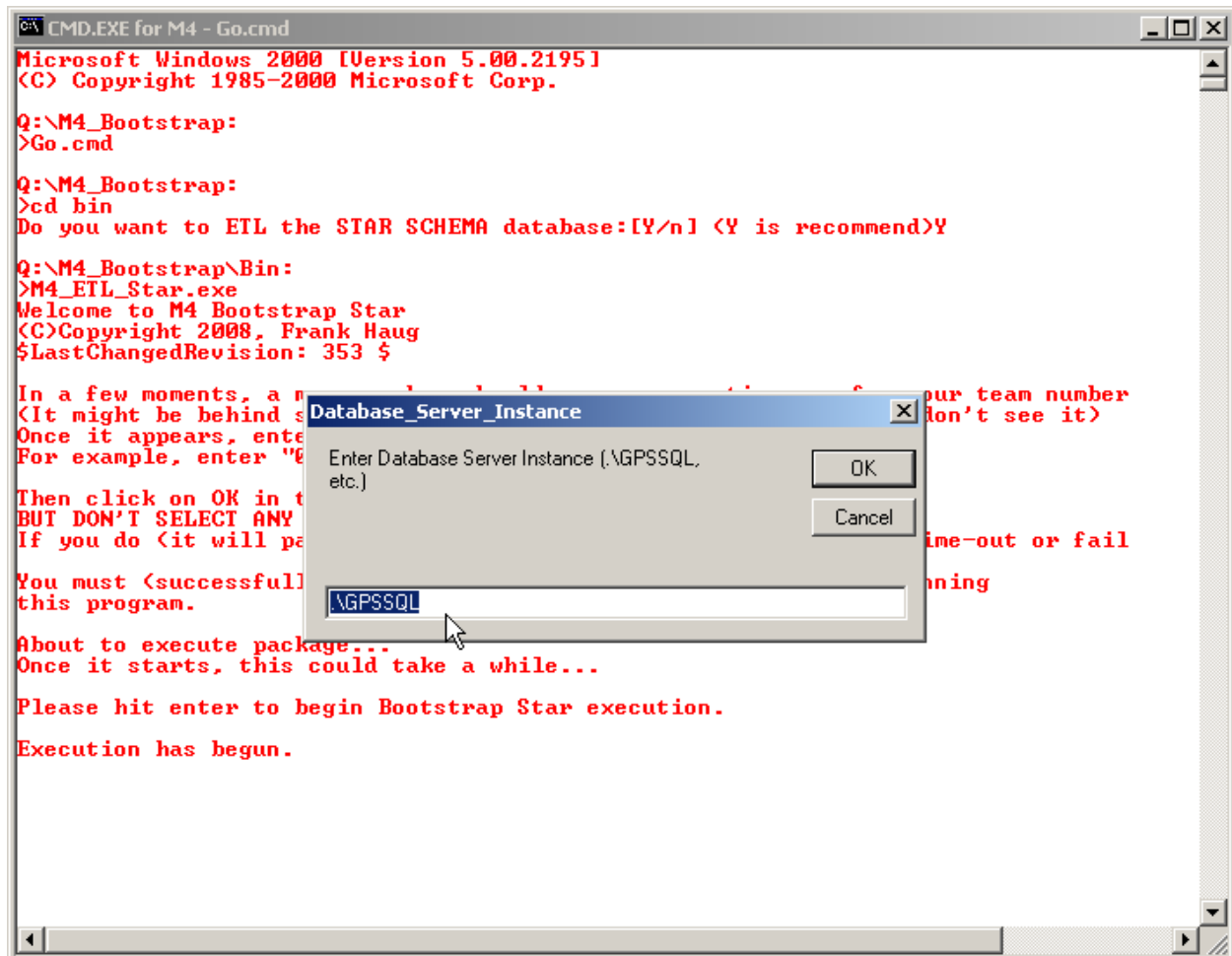
3. The Team Number Message box

A message box prompting for your zero-padded team number will be displayed next (It might be behind some windows so look at the taskbar and behind things if you don't see it). Enter your (zero-padded) team number and hit OK.



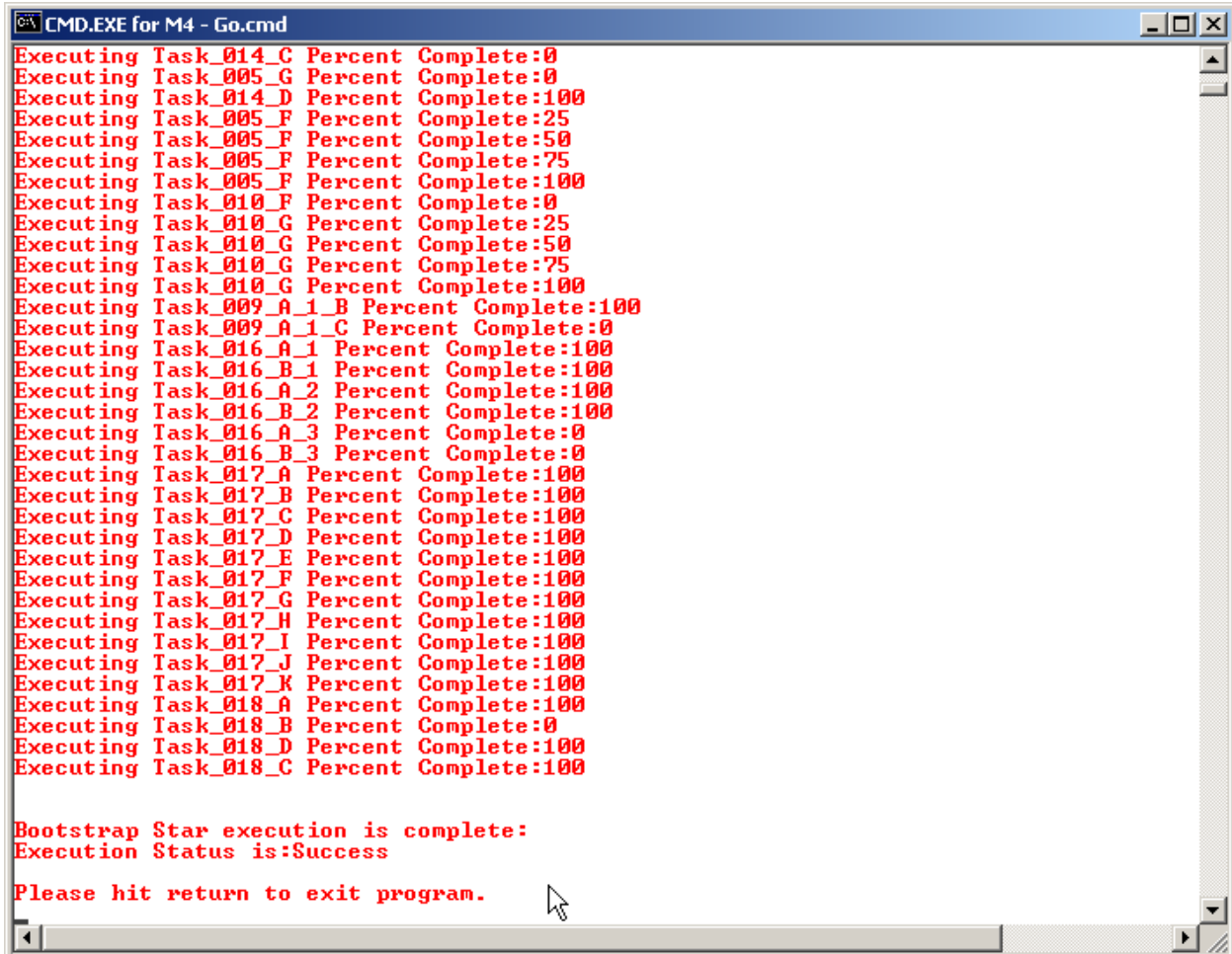
4. The Database Instance Name Message box

A message box prompting for your database instance name will be displayed next (the default value of ".\GPSSQL" should be correct). Enter your instance name and hit OK.



5. Wait for it to complete

Messages should scroll by in the CMD window, and eventually, you should see a message indicating that it is done (hopefully successfully). Hit Enter to continue to the next Step.



```
CMD.EXE for M4 - Go.cmd
Executing Task_014_C Percent Complete:0
Executing Task_005_G Percent Complete:0
Executing Task_014_D Percent Complete:100
Executing Task_005_F Percent Complete:25
Executing Task_005_F Percent Complete:50
Executing Task_005_F Percent Complete:75
Executing Task_005_F Percent Complete:100
Executing Task_010_F Percent Complete:0
Executing Task_010_G Percent Complete:25
Executing Task_010_G Percent Complete:50
Executing Task_010_G Percent Complete:75
Executing Task_010_G Percent Complete:100
Executing Task_009_A_1_B Percent Complete:100
Executing Task_009_A_1_C Percent Complete:0
Executing Task_016_A_1 Percent Complete:100
Executing Task_016_B_1 Percent Complete:100
Executing Task_016_A_2 Percent Complete:100
Executing Task_016_B_2 Percent Complete:100
Executing Task_016_A_3 Percent Complete:0
Executing Task_016_B_3 Percent Complete:0
Executing Task_017_A Percent Complete:100
Executing Task_017_B Percent Complete:100
Executing Task_017_C Percent Complete:100
Executing Task_017_D Percent Complete:100
Executing Task_017_E Percent Complete:100
Executing Task_017_F Percent Complete:100
Executing Task_017_G Percent Complete:100
Executing Task_017_H Percent Complete:100
Executing Task_017_I Percent Complete:100
Executing Task_017_J Percent Complete:100
Executing Task_017_K Percent Complete:100
Executing Task_018_A Percent Complete:100
Executing Task_018_B Percent Complete:0
Executing Task_018_D Percent Complete:100
Executing Task_018_C Percent Complete:100

Bootstrap Star execution is complete:
Execution Status is:Success

Please hit return to exit program.
```


B. Starting the Second Task: Creating the Analysis Services Info

Next, we need to populate the Analysis Services Information for the Cube we are building out of the Star Schema database we just loaded via ETL.

1. Do you want to Create the AS structures?

You should say Y to this prompt, and then hit enter.

```

CMD.EXE for M4 - Go.cmd
Executing Task_005_F Percent Complete:25
Executing Task_005_F Percent Complete:50
Executing Task_005_F Percent Complete:75
Executing Task_005_F Percent Complete:100
Executing Task_010_F Percent Complete:0
Executing Task_010_G Percent Complete:25
Executing Task_010_G Percent Complete:50
Executing Task_010_G Percent Complete:75
Executing Task_010_G Percent Complete:100
Executing Task_009_A_1_B Percent Complete:100
Executing Task_009_A_1_C Percent Complete:0
Executing Task_016_A_1 Percent Complete:100
Executing Task_016_B_1 Percent Complete:100
Executing Task_016_A_2 Percent Complete:100
Executing Task_016_B_2 Percent Complete:100
Executing Task_016_A_3 Percent Complete:0
Executing Task_016_B_3 Percent Complete:0
Executing Task_017_A Percent Complete:100
Executing Task_017_B Percent Complete:100
Executing Task_017_C Percent Complete:100
Executing Task_017_D Percent Complete:100
Executing Task_017_E Percent Complete:100
Executing Task_017_F Percent Complete:100
Executing Task_017_G Percent Complete:100
Executing Task_017_H Percent Complete:100
Executing Task_017_I Percent Complete:100
Executing Task_017_J Percent Complete:100
Executing Task_017_K Percent Complete:100
Executing Task_018_A Percent Complete:100
Executing Task_018_B Percent Complete:0
Executing Task_018_D Percent Complete:100
Executing Task_018_C Percent Complete:100

Bootstrap Star execution is complete:
Execution Status is:Success

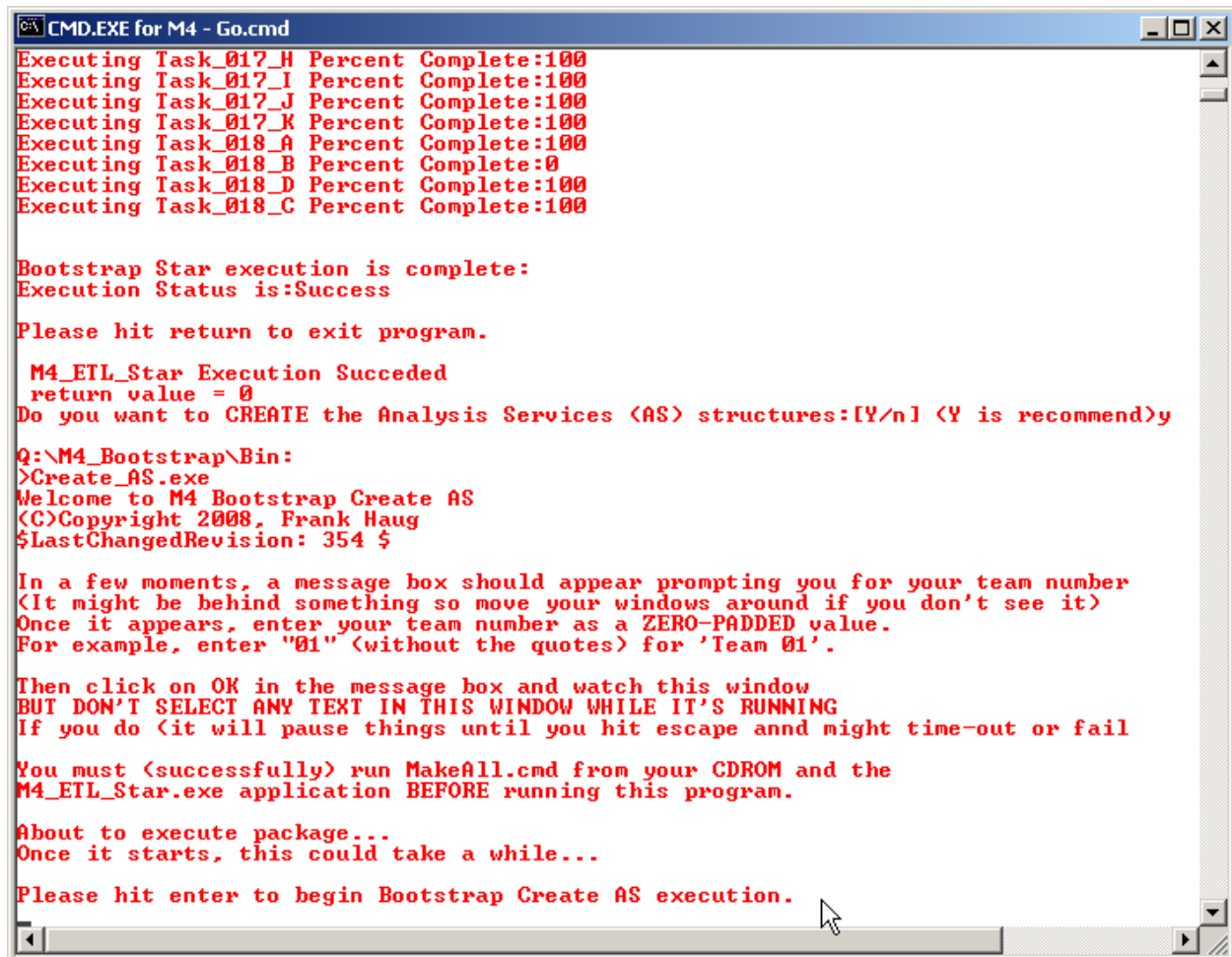
Please hit return to exit program.

M4_ETL_Star Execution Succeeded
return value = 0
Do you want to CREATE the Analysis Services (AS) structures:[Y/n] (Y is recommend)
  
```

2. Hit Enter to Begin Creating the AS

Next, you will see a description of what is coming next, and a prompt to hit ENTER after you are done reading it.

Hit Enter once you have read it.



```
CMD.EXE for M4 - Go.cmd
Executing Task_017_H Percent Complete:100
Executing Task_017_I Percent Complete:100
Executing Task_017_J Percent Complete:100
Executing Task_017_K Percent Complete:100
Executing Task_018_A Percent Complete:100
Executing Task_018_B Percent Complete:0
Executing Task_018_D Percent Complete:100
Executing Task_018_C Percent Complete:100

Bootstrap Star execution is complete:
Execution Status is:Success

Please hit return to exit program.

M4_ETL_Star Execution Succeeded
return value = 0
Do you want to CREATE the Analysis Services (AS) structures:[Y/n] (Y is recommend)y

Q:\M4_Bootstrap\Bin:
>Create_AS.exe
Welcome to M4 Bootstrap Create AS
(C)Copyright 2008, Frank Haug
$LastChangedRevision: 354 $

In a few moments, a message box should appear prompting you for your team number
(It might be behind something so move your windows around if you don't see it)
Once it appears, enter your team number as a ZERO-PADDED value.
For example, enter "01" (without the quotes) for 'Team 01'.

Then click on OK in the message box and watch this window
BUT DON'T SELECT ANY TEXT IN THIS WINDOW WHILE IT'S RUNNING
If you do (it will pause things until you hit escape and might time-out or fail

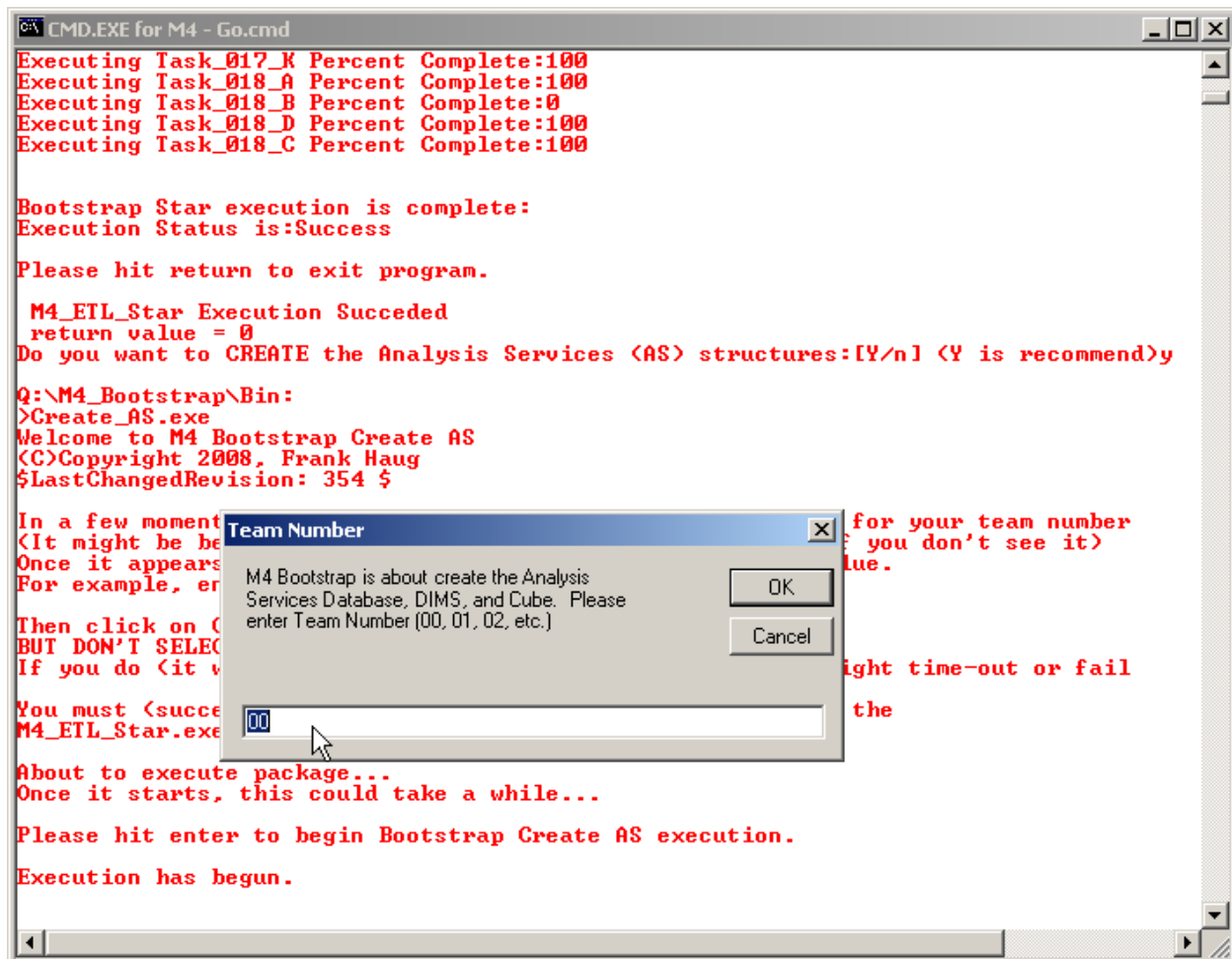
You must (successfully) run MakeAll.cmd from your CDROM and the
M4_ETL_Star.exe application BEFORE running this program.

About to execute package...
Once it starts, this could take a while...

Please hit enter to begin Bootstrap Create AS execution.
```

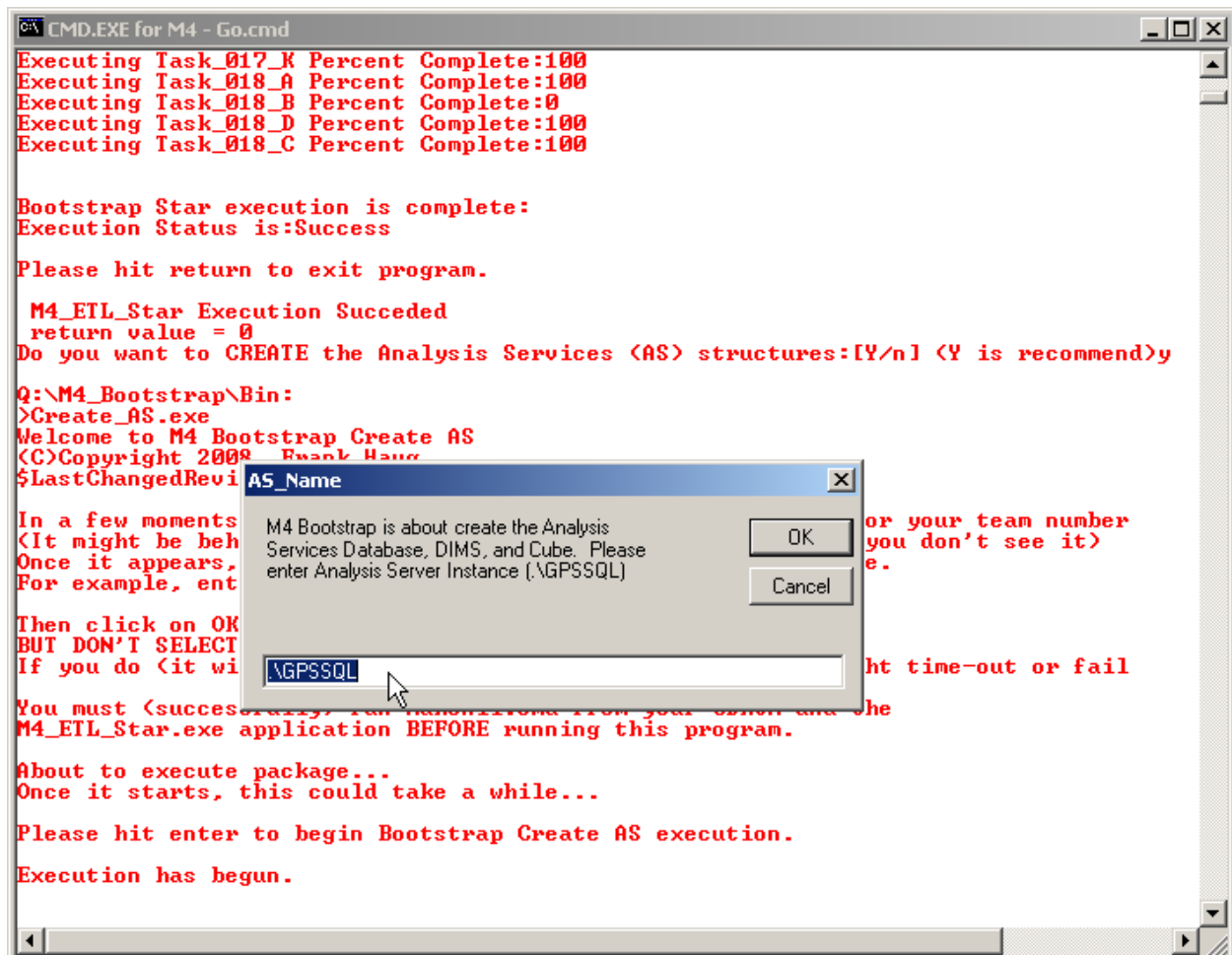
3. The Second Team Number Message box

Once again a message box prompting for your zero-padded team number will be displayed next (It might be behind some windows so look at the taskbar and behind things if you don't see it). Enter your (zero padded) team number and hit OK.



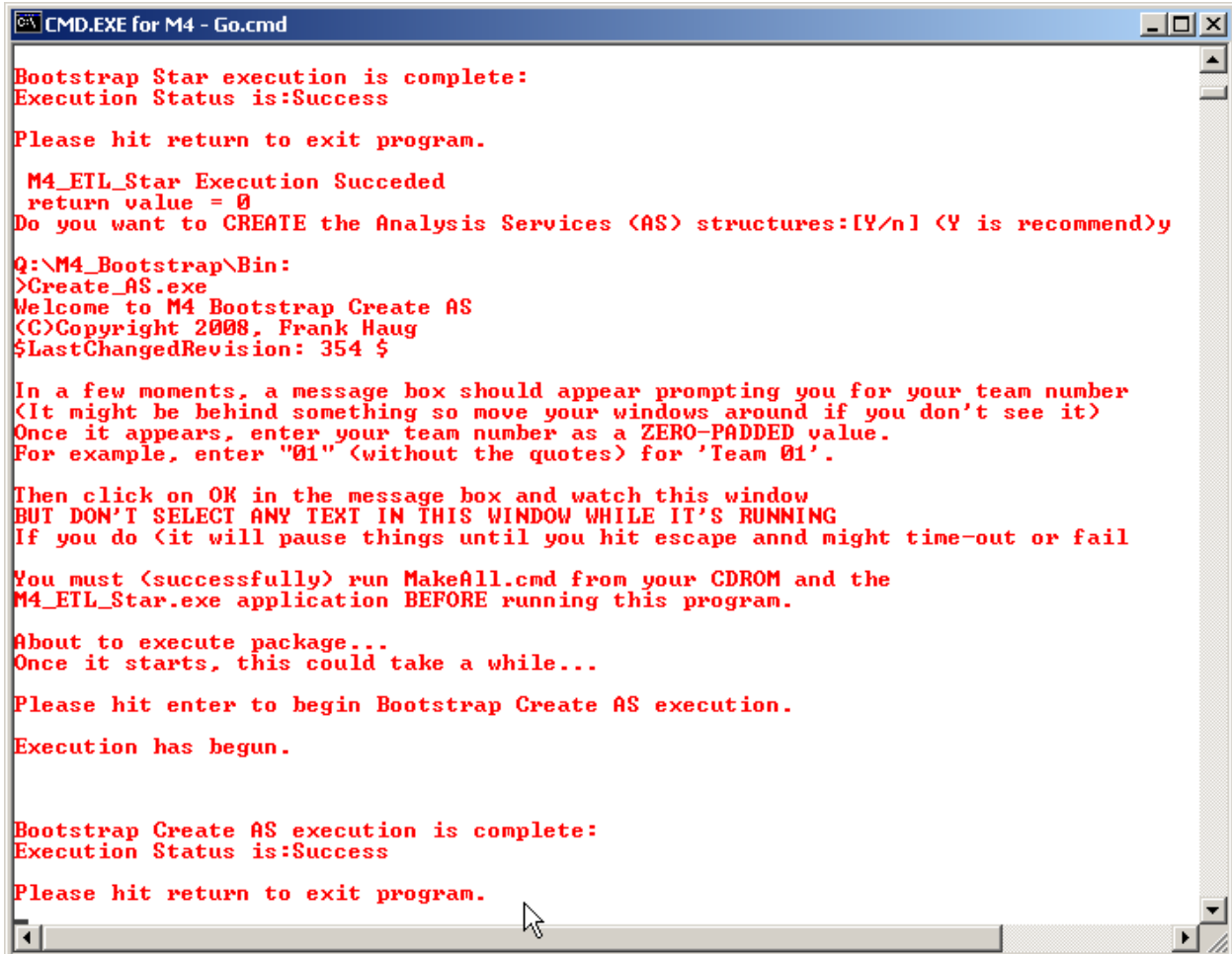
4. The Analysis Services Instance Name Message box

A message box prompting for your Analysis Services instance name will be displayed next (the default value of ".\GPSSQL" should be correct). The Analysis Services Instance is named separately from the Database Instance, but usually we name them the same – this will be true if you are on campus or if you followed the installation instructions that were posted to the BB. Enter your instance name and hit OK.



5. Wait for it to complete

You should see a message indicating that it is done (hopefully successfully) after a reasonably short delay. Hit Enter to continue to the next Step.



```
CMD.EXE for M4 - Go.cmd

Bootstrap Star execution is complete:
Execution Status is:Success

Please hit return to exit program.

M4_ETL_Star Execution Succeeded
return value = 0
Do you want to CREATE the Analysis Services (AS) structures:[Y/n] (Y is recommend)y

Q:\M4_Bootstrap\Bin:
>Create_AS.exe
Welcome to M4 Bootstrap Create AS
(C)Copyright 2008, Frank Haug
$LastChangedRevision: 354 $

In a few moments, a message box should appear prompting you for your team number
(It might be behind something so move your windows around if you don't see it)
Once it appears, enter your team number as a ZERO-PADDED value.
For example, enter "01" (without the quotes) for 'Team 01'.

Then click on OK in the message box and watch this window
BUT DON'T SELECT ANY TEXT IN THIS WINDOW WHILE IT'S RUNNING
If you do (it will pause things until you hit escape and might time-out or fail

You must (successfully) run MakeAll.cmd from your CDROM and the
M4_ETL_Star.exe application BEFORE running this program.

About to execute package...
Once it starts, this could take a while...

Please hit enter to begin Bootstrap Create AS execution.

Execution has begun.

Bootstrap Create AS execution is complete:
Execution Status is:Success

Please hit return to exit program.
```

C. Starting the Third Task: Processing the AS

The last thing you will be asked is if you need to Process the Analysis Services information. This will populate the AS structures we creating in step 2, by loading the information from the Star Schema data we loaded (ETL) in step 1. It will create a (Sales) Cube for us and it will also (**pre-query**) calculate all the AGGS in the cube using **MOLAP** as the data store implementation.

1. Do you want to Process the AS?

You should say Y to this prompt, and then hit enter.

```

CMD.EXE for M4 - Go.cmd

Please hit return to exit program.

M4_ETL_Star Execution Succeeded
return value = 0
Do you want to CREATE the Analysis Services (AS) structures:[Y/n] (Y is recommend)y

Q:\M4_Bootstrap\Bin:
>Create_AS.exe
Welcome to M4 Bootstrap Create AS
<C>Copyright 2008, Frank Haug
$LastChangedRevision: 354 $

In a few moments, a message box should appear prompting you for your team number
<It might be behind something so move your windows around if you don't see it>
Once it appears, enter your team number as a ZERO-PADDED value.
For example, enter "01" <without the quotes> for 'Team 01'.

Then click on OK in the message box and watch this window
BUT DON'T SELECT ANY TEXT IN THIS WINDOW WHILE IT'S RUNNING
If you do <it will pause things until you hit escape and might time-out or fail

You must <successfully> run MakeAll.cmd from your CDRom and the
M4_ETL_Star.exe application BEFORE running this program.

About to execute package...
Once it starts, this could take a while...

Please hit enter to begin Bootstrap Create AS execution.

Execution has begun.

Bootstrap Create AS execution is complete:
Execution Status is:Success

Please hit return to exit program.

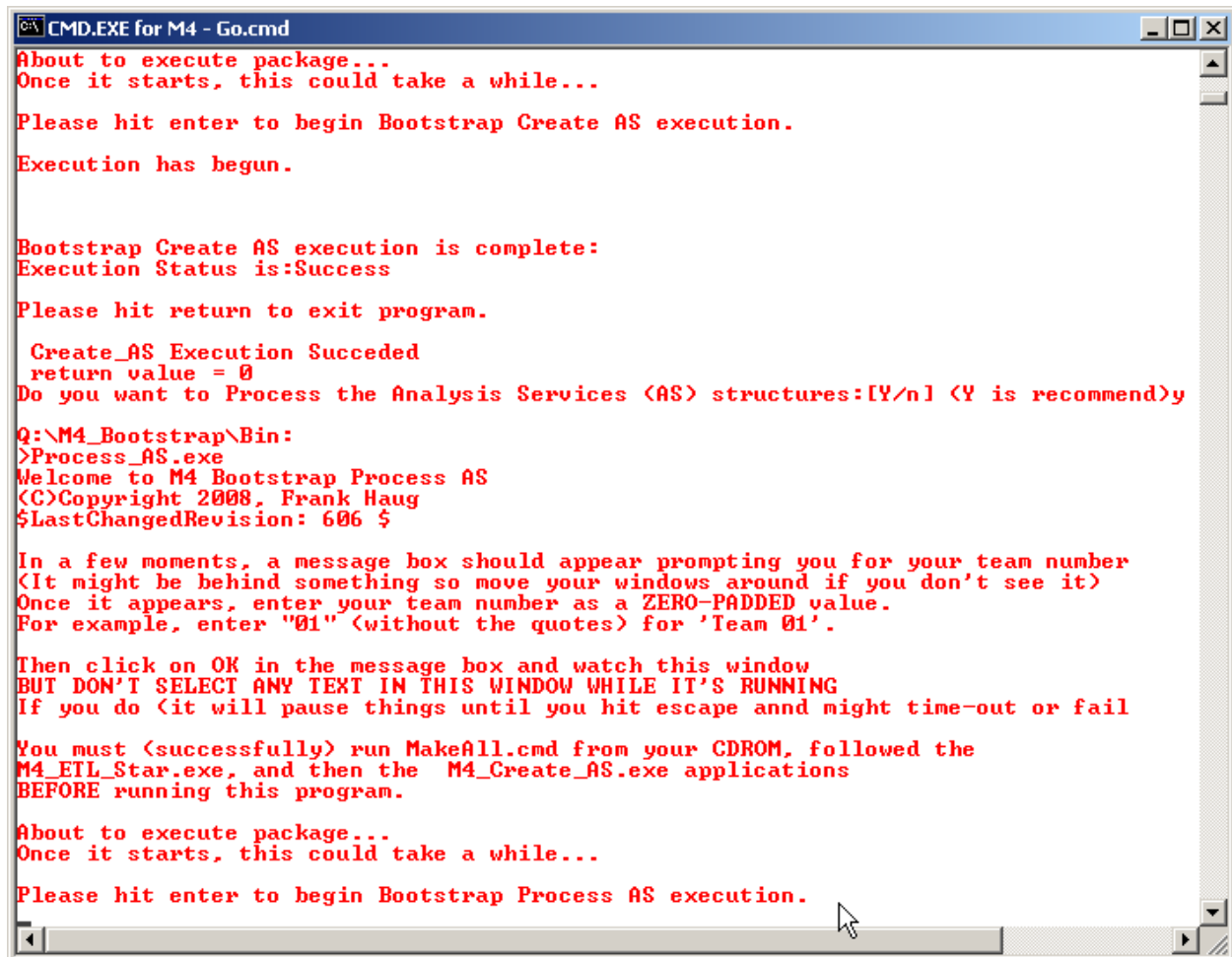
Create_AS Execution Succeeded
return value = 0
Do you want to Process the Analysis Services (AS) structures:[Y/n] (Y is recommend)

```

2. Hit Enter to Begin ETL

Next, you will see a description of what is coming next, and a prompt to hit ENTER after you are done reading it.

Hit Enter once you have read it.



```
CMD.EXE for M4 - Go.cmd
About to execute package...
Once it starts, this could take a while...

Please hit enter to begin Bootstrap Create AS execution.
Execution has begun.

Bootstrap Create AS execution is complete:
Execution Status is:Success

Please hit return to exit program.

  Create_AS Execution Succeeded
  return value = 0
Do you want to Process the Analysis Services (AS) structures:[Y/n] (Y is recommend)y
Q:\M4_Bootstrap\Bin:
>Process_AS.exe
Welcome to M4 Bootstrap Process AS
(C)Copyright 2008, Frank Haug
$LastChangedRevision: 606 $

In a few moments, a message box should appear prompting you for your team number
(It might be behind something so move your windows around if you don't see it)
Once it appears, enter your team number as a ZERO-PADDED value.
For example, enter "01" (without the quotes) for 'Team 01'.

Then click on OK in the message box and watch this window
BUT DON'T SELECT ANY TEXT IN THIS WINDOW WHILE IT'S RUNNING
If you do (it will pause things until you hit escape annd might time-out or fail

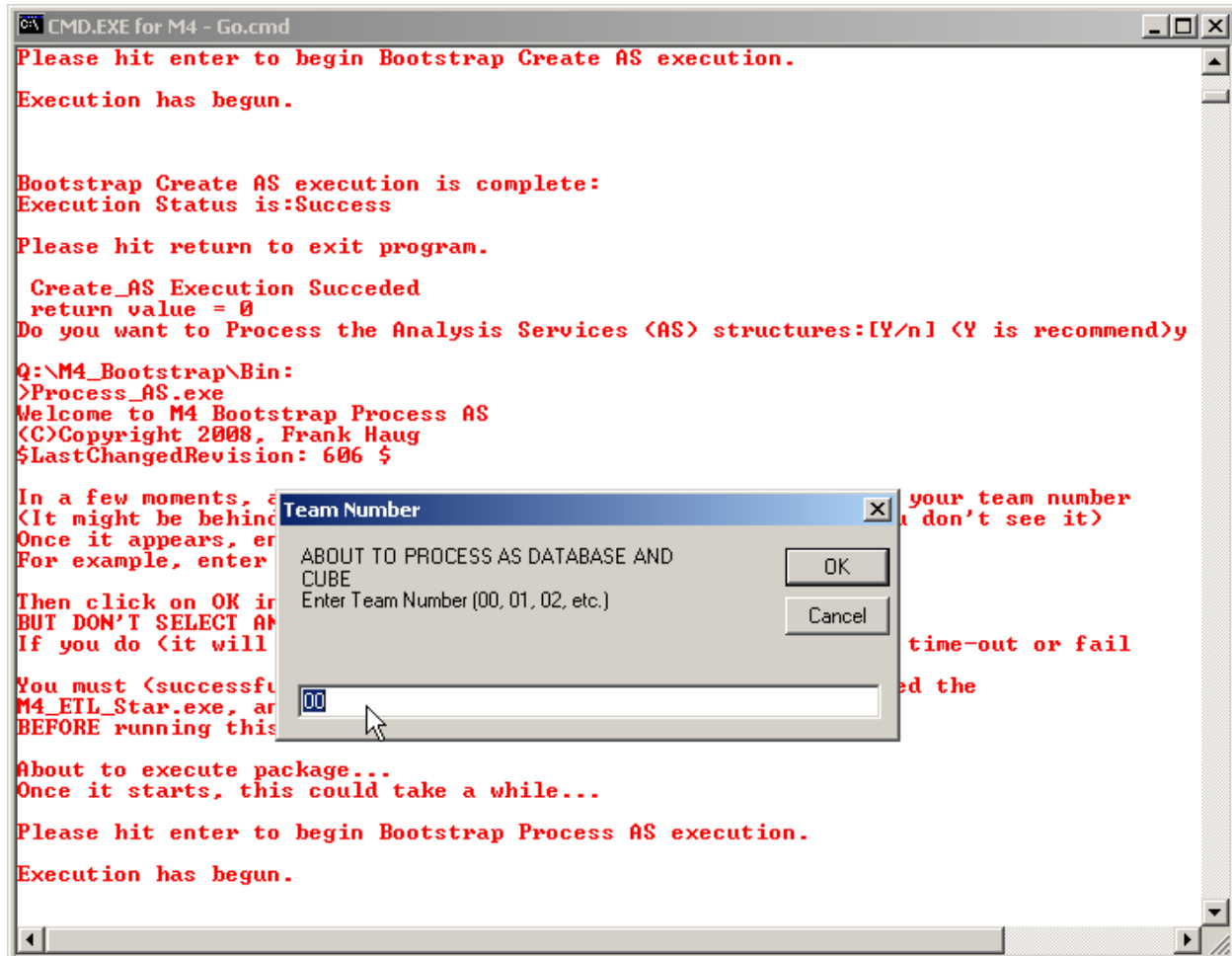
You must (successfully) run MakeAll.cmd from your CDROM, followed the
M4_ETL_Star.exe, and then the M4_Create_AS.exe applications
BEFORE running this program.

About to execute package...
Once it starts, this could take a while...

Please hit enter to begin Bootstrap Process AS execution.
```

3. The Third Team Number Message box

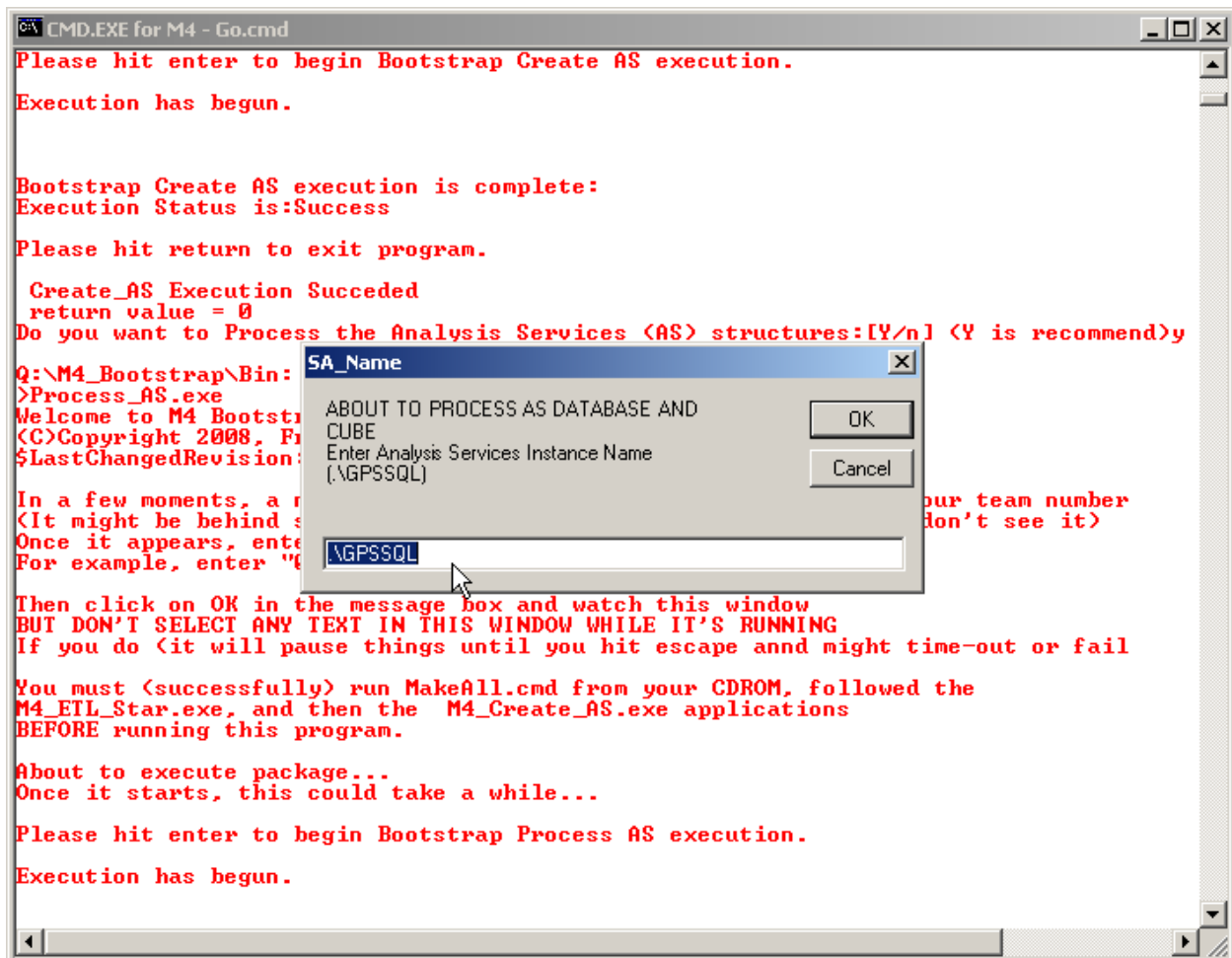
Yet again, a message box prompting for your zero-padded team number will be displayed next (It might be behind some windows so look at the taskbar and behind things if you don't see it). Enter your (zero padded) team number and hit OK.



4. The Second Analysis Services Instance Name Message box

Another message box prompting for your Analysis Services instance name will be displayed next (the default value of ".\GPSSQL" should be correct). Obviously, this should use the same value you used in Step 2.

Enter your instance name and hit OK.



5. Wait for it to complete

Messages should scroll by in the CMD window, and eventually, you should see a message indicating that it is done (hopefully successfully). Hit Enter to continue to the next Step.

```

ars0_0] AS [dbo_RRU_SALESRRU_Actual_Sales_Amount_in_Dollars0_0],[dbo_RRU_SALES].[dbo_
ocessing_Fees0_1] AS [dbo_RRU_SALESRRU_Processing_Fees0_1],[dbo_RRU_SALES].[dbo_RRU_S
g_Fees0_2] AS [dbo_RRU_SALESRRU_Handling_Fees0_2],[dbo_RRU_SALES].[dbo_RRU_SALESRRU_T
AS [dbo_RRU_SALESRRU_Transit_Fees0_3],[dbo_RRU_SALES].[dbo_RRU_SALESRRU_Serial_Numbe
RU_SALESRRU_Serial_Number0_4],[dbo_RRU_SALES].[dbo_RRU_SALES0_5] AS [dbo_RRU_SALES0_5
S],[dbo_RRU_SALESMSA_Micropolitan_Area_Key0_6] AS [dbo_RRU_SALESMSA_Micropolitan_Area
RU_SALES].[dbo_RRU_SALESCLR_Key0_7] AS [dbo_RRU_SALESCLR_Key0_7],[dbo_RRU_SALES].[dbo
Key0_8] AS [dbo_RRU_SALESPPAT_Key0_8],[dbo_RRU_SALES].[dbo_RRU_SALESMDAT_Key0_9] AS [
AT_Key0_9],[dbo_RRU_SALES].[dbo_RRU_SALESCUST_Key0_10] AS [dbo_RRU_SALESCUST_Key0_10]
],[dbo_RRU_SALESMFG_Key0_11] AS [dbo_RRU_SALESMFG_Key0_11],[dbo_RRU_SALES].[dbo_RRU_S
] AS [dbo_RRU_SALESPKG_Key0_12],[dbo_RRU_SALES].[dbo_RRU_SALESSORG_Key0_13] AS [dbo_R
y0_13],[dbo_RRU_SALES].[dbo_RRU_SALESPLAN_Key0_14] AS [dbo_RRU_SALESPLAN_Key0_14],[d
bo_RRU_SALESPRD_Key0_15] AS [dbo_RRU_SALESPRD_Key0_15]
FROM
<
SELECT [RRU_Actual_Sales_Amount_in_Dollars] AS [dbo_R
ual_Sales_Amount_in_Dollars0_0],[RRU_Processing_Fees] AS [dbo_RRU_SALESRRU_Processing
Handling_Fees] AS [dbo_RRU_SALESRRU_Handling_Fees0_2],[RRU_Transit_Fees] AS [dbo_RRU_
t_Fees0_3],[RRU_Serial_Number] AS [dbo_RRU_SALESRRU_Serial_Number0_4],1 AS [dbo_RRU_
Micropolitan_Area_Key] AS [dbo_RRU_SALESMSA_Micropolitan_Area_Key0_6],[CLR_Key] AS [
R_Key0_7],[PPAT_Key] AS [dbo_RRU_SALESPPAT_Key0_8],[MDAT_Key] AS [dbo_RRU_SALESMDAT_K
y] AS [dbo_RRU_SALESCUST_Key0_10],[MFG_Key] AS [dbo_RRU_SALESMFG_Key0_11],[PKG_Key] A
SPKG_Key0_12],[SORG_Key] AS [dbo_RRU_SALESSORG_Key0_13],[PLAN_Key] AS [dbo_RRU_SALESP
RD_Key] AS [dbo_RRU_SALESPRD_Key0_15]
FROM [dbo].[RRU_SALES]
>
AS [dbo_RRU_SALES] Percent Complete:100
Executing Started reading data from the 'RRU SALES' partition. Percent Complete:0
Executing Finished reading data from the 'RRU SALES' partition. Percent Complete:100
Executing Finished writing data for the 'RRU SALES' partition. Percent Complete:100
Executing Building the aggregations and indexes for the 'RRU SALES' partition has sta
omplete:0
Executing Building indexes for the 'RRU SALES' partition has started. Percent Complet
Executing Finished building indexes for the 'RRU SALES' partition. Percent Complete:1

Bootstrap Process AS execution is complete:
Execution Status is:Success

Please hit return to exit program.

```