

Part (a)

```
%9:30TR          3C-09/16/2019          samkramer6
%this code is a simple loop that is meant to input 5 values and then
find the average of all the values
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%Start code
clc;clear;format compact;
value1 = input('Please input the first value: ');
value2 = input('Please input the second value: ');
value3 = input('Please input the third value: ');
value4 = input('Please input the fourth value: ');
value5 = input('Please input the fifth value: ');
total = value1 + value2 + value3 + value4 + value5;
Ybar = total/5;
disp('The average is ' +Ybar)
```

Part (b)

```
%9:30TR          3C-09/16/2019          samkramer6
%This code is meant to be the same as part B however it integrates
matrices
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%start code
clear;clc;format compact
j = 0;
total = 0;
while j < entries
    value = input('Please input the value: ');
    total = value + total;
    j = j + 1;
end
Ybar = total/entries;
disp('The average value is '+Ybar)
```

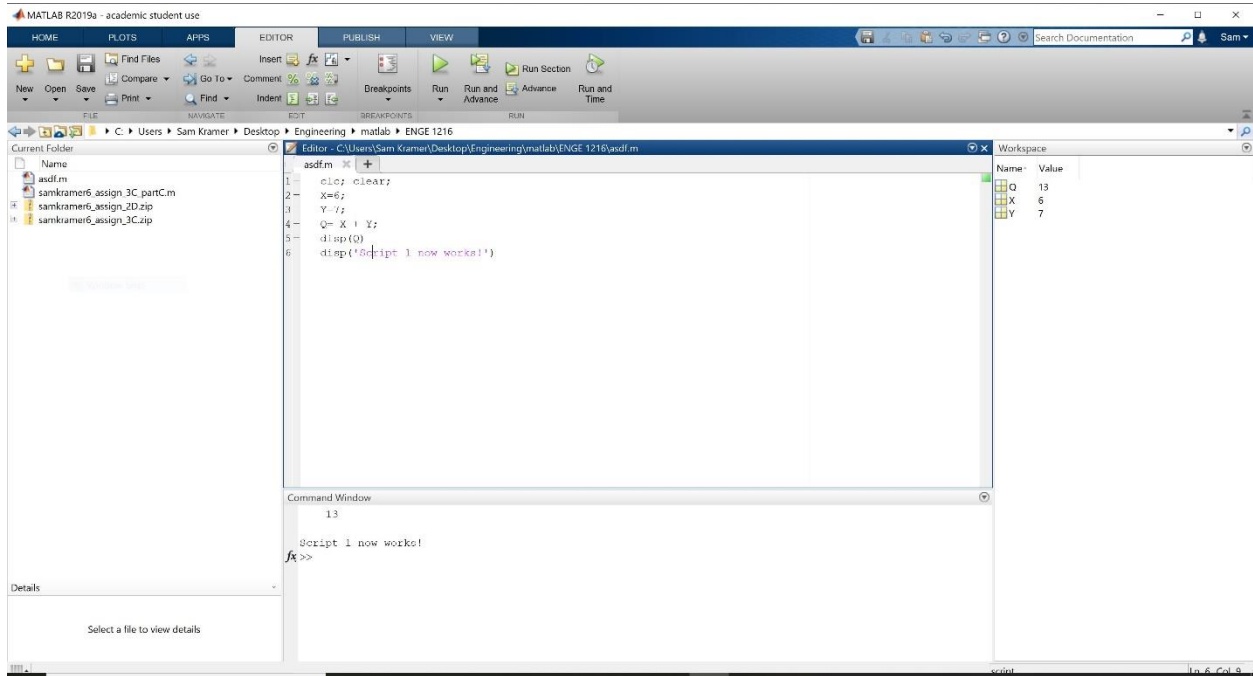
Part (c)

```
%9:30TR          3C-09/16/2019          samkramer6
%This script is to make part A more robust using a loop
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%Start Code
clc;clear;format compact;
entries = input('Please input the amount of values you want: ');
j = 0;
v = [];
while j < entries
```

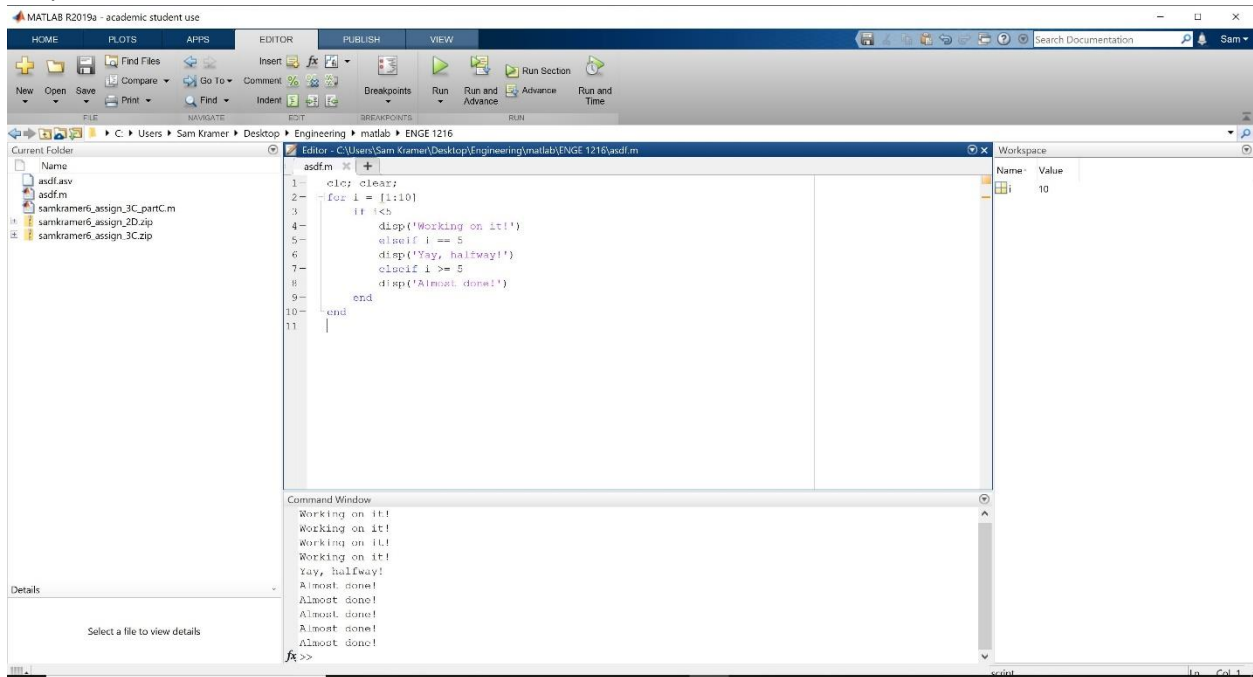
```
vi = input('Please input the value: ');  
v = [v vi];  
j = j + 1;  
end  
total = sum(v);  
Ybar = total/(numel(v));  
disp("The average value is "+Ybar)
```

## PART 2

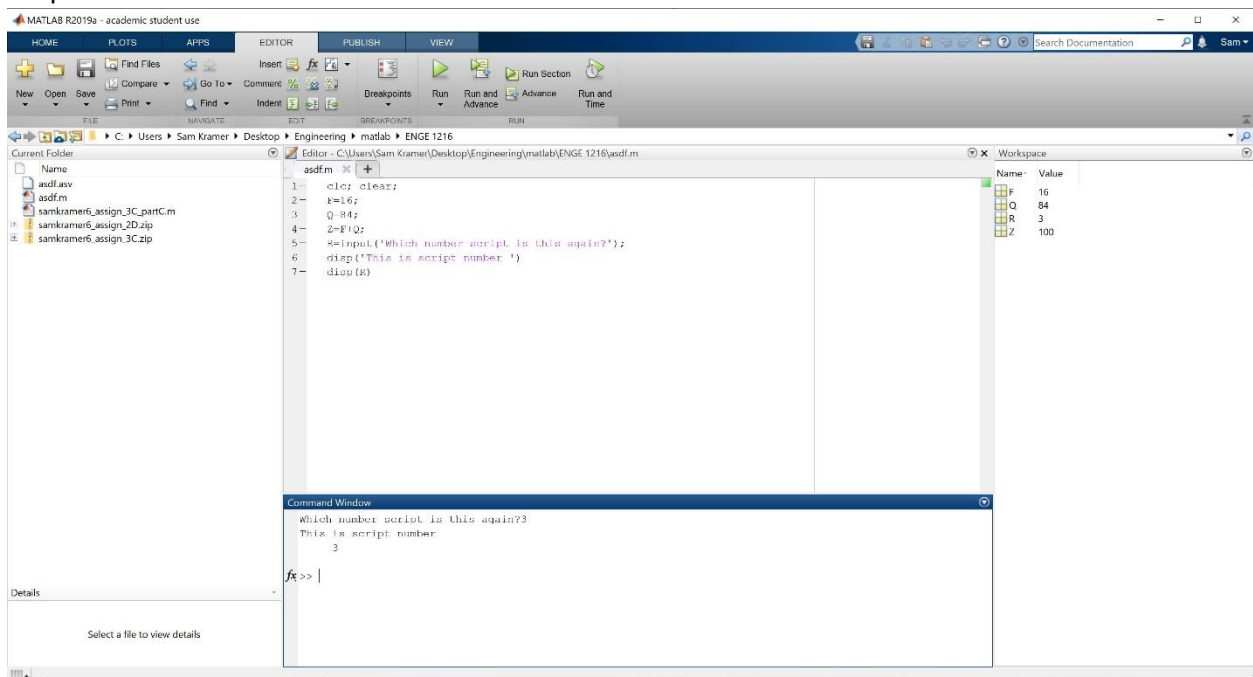
### Script 1



## Script 2



## Script 3



## Script 4

