
```
%HOMEWORK 7 - MECH 105
%Abdulla Al Ameri
%Date Due: 5, Feb, 2018
```

```
clear
clc
```

```
%Intilaizing Variables.
```

```
Eps1 = 1; %Epsilon
```

```
while Eps1 + 1 > 1
```

```
%The loop will run until Epsilon + 1 is still bigger
%than one, i.e. it'll stop when it's == 1 or smaller.
```

```
    Eps1 = Eps1 * (0.5);
    %Everytime we will go down by a factor of 2 and
    %check for the condition.
```

```
end
```

```
%When you find the value that hits your error you will mutliply
%By 2 to go an error limit up, i.e. Eps1*2 is your max error at which
%if you exceed you will have an error.
```

```
Eps1 = Eps1 * 2
```

```
Eps1 =
```

```
2.2204e-16
```

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