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### **Part 2: Letter Grade**

Prints your letter grade based on numerical grade

```
grade = 94; %set numerical grade here
if grade >= 93
    fprintf("Letter Grade is A\n")
elseif grade >= 90
    fprintf("Letter Grade is A-\n")
elseif grade >= 87
    fprintf("Letter Grade is B+\n")
elseif grade >= 83
    fprintf("Letter Grade is B\n")
elseif grade >= 80
    fprintf("Letter Grade is B-\n")
elseif grade >= 77
    fprintf("Letter Grade is C+\n")
elseif grade >= 73
    fprintf("Letter Grade is C\n")
elseif grade >= 70
    fprintf("Letter Grade is C-\n")
elseif grade >= 67
    fprintf("Letter Grade is D+\n")
elseif grade >= 63
    fprintf("Letter Grade is D\n")
elseif grade >= 60
    fprintf("Letter Grade is D-\n")
else
    fprintf("Letter Grade is F\n")
end
```

Letter Grade is A

# **Part 3: Square Roots**

Prints a table of first ten non-zero, positive integers and their square roots

```
fprintf('Number, Squareroot\n')
for num = 1:10
    fprintf('%d,\t%f \n', num, num^0.5)
end

Number, Squareroot
1, 1.000000
```

```
2, 1.414214
3, 1.732051
4, 2.000000
5, 2.236068
6, 2.449490
7, 2.645751
8, 2.828427
9, 3.000000
10, 3.162278
```

## Part 4: Partial Sum

Calculates the partial sum for  $(2/3)^k$  for n = 5, 10, 25, 50, 100

## Part 5: Divder

Divides a number and outputs result until it is less than 1

```
num = 843; %Set number to be divided here
while num > 1
    num = num / 2;
    fprintf('%f\n', num)
end

421.500000
210.750000
105.375000
52.687500
26.343750
13.171875
6.585938
3.292969
1.646484
0.823242
```

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