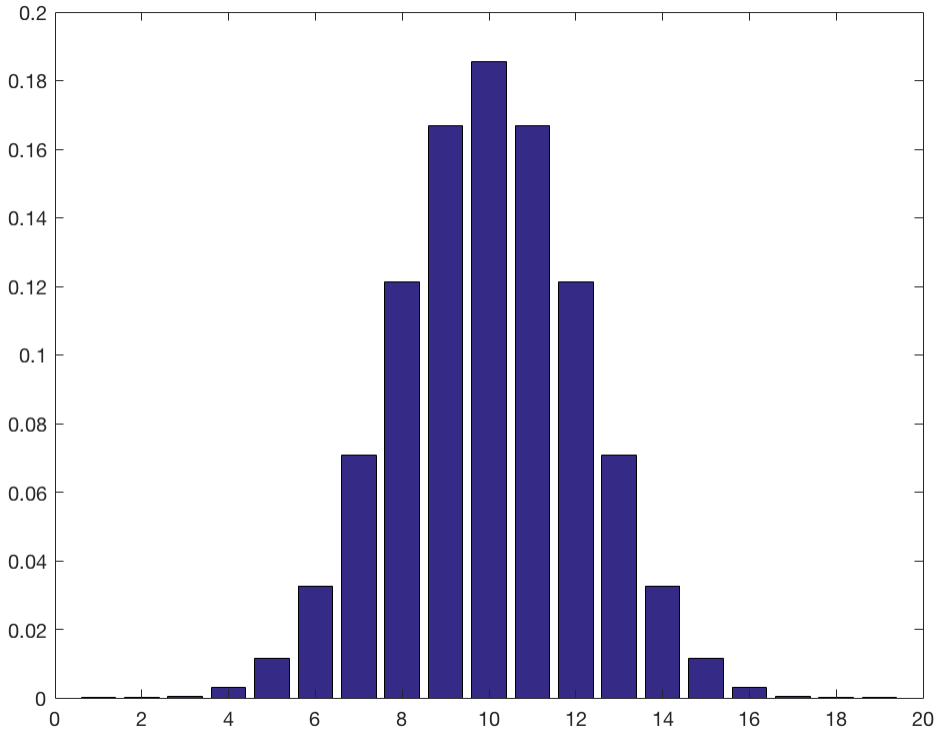
```
% 2017 Spring EE 380 Section 6
% Project 4
% Aaron Turner
% #011502541
% Hypothesis Testing
% ------------------------------------------
% __________________________________________
% Below is the code for a binomial distribution wit n = 18, p = 0.5,
% it will produce a plot of the distribution
function project4

    format long % This will increase the expressed precision

    % Arry for prob
    prob = [];

    % Sample Size, Number of trials
    n = 18;

    % Probability of success
    p = 0.5;

    % Trials to run
    for x = 0:18
        % Get our binomail PDF
        % binopdf (x,n,p)
        prob(x + 1) = binopdf(x, n, p);
    end

    % Print the values
    prob

    % Build Our Graph
    figure(1);
    bar(prob);
end
```

```
prob =

  Columns 1 through 3

   0.000003814697266   0.000068664550781   0.000583648681641

  Columns 4 through 6

   0.003112792968750   0.011672973632813   0.032684326171875

  Columns 7 through 9

   0.070816040039063   0.121398925781250   0.166923522949219
```

```
Columns 10 through 12

 0.185470581054688   0.166923522949219   0.121398925781250

Columns 13 through 15

 0.070816040039063   0.032684326171875   0.011672973632813

Columns 16 through 18

 0.003112792968750   0.000583648681641   0.000068664550781

Column 19

 0.000003814697266
```



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