Software Tools Evaluation

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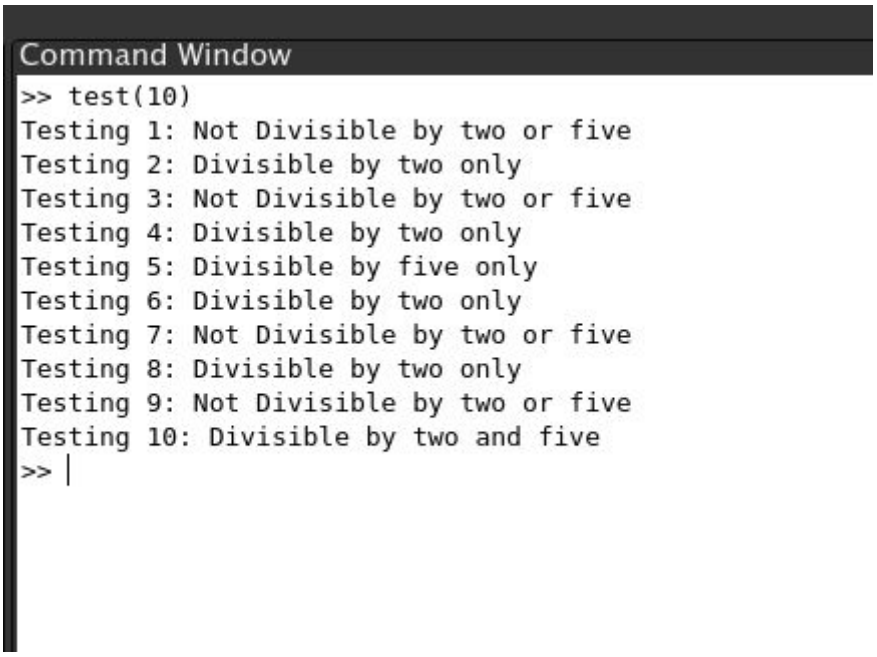
1. Write a function test(N), Which will run through values 1 to N. And for each value N it will display N is divisible by 2 and/or 5. Or it is not divisible by 2 and/or 5 (Use for loop).

```
function test(n)
  for i = 1:n
    byTwo = ~rem(i, 2);
    byFive = ~rem(i, 5);
    printf("Testing %d: ", i);
    if byTwo && byFive
      puts("Divisible by two and five\n");
    elseif byTwo
      puts("Divisible by two only\n");
    elseif byFive
      puts("Divisible by five only\n");
    else
      puts("Not Divisible by two or five\n");
    end
  end
end
```



2. For f(x) = x^3 - 6x^2 + 11x -6 compute f(3) and roots of f(x). Also plot the same for 0<=x<= 20

```
clc;
clear all;

p = [1 -6 11 -6];

valueAtThree = polyval(p, 3)

roots = roots(p)

x = [0:0.1:20];
plot(x, polyval(p, x));
```