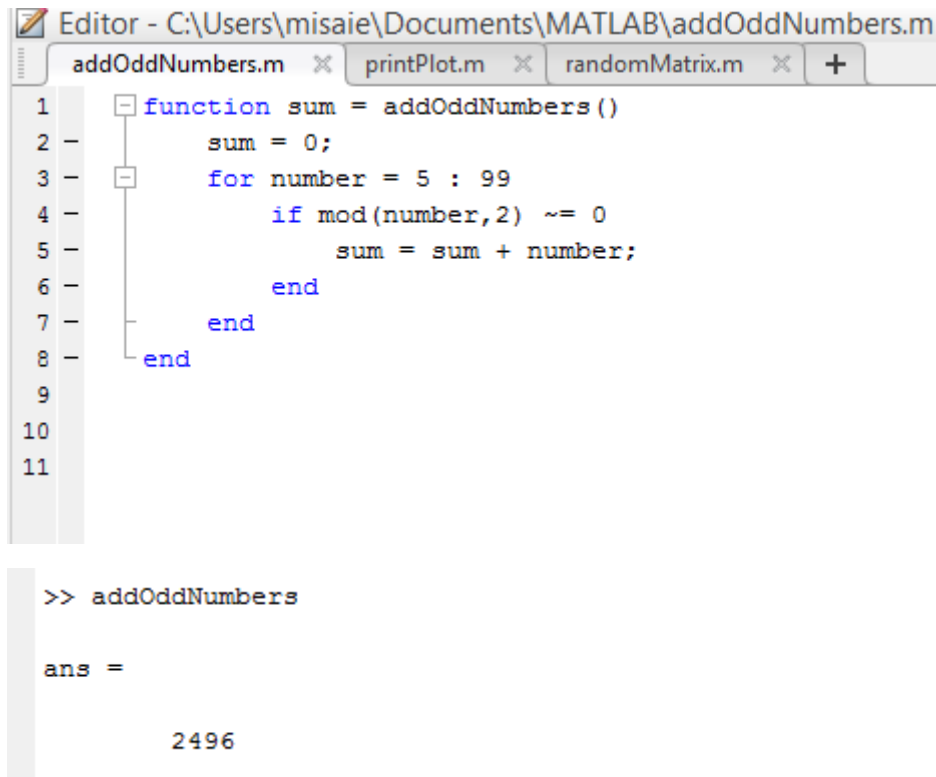


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MatLab Assignment 1

Problem 1



The image shows a MATLAB Editor window with the file `addOddNumbers.m` open. The code defines a function `addOddNumbers` that calculates the sum of odd numbers from 5 to 99. The Command Window shows the function being called and the result `2496`.

```
Editor - C:\Users\misaie\Documents\MATLAB\addOddNumbers.m
addOddNumbers.m x printPlot.m x randomMatrix.m x +
1  function sum = addOddNumbers()
2      sum = 0;
3      for number = 5 : 99
4          if mod(number,2) ~= 0
5              sum = sum + number;
6          end
7      end
8  end
9
10
11

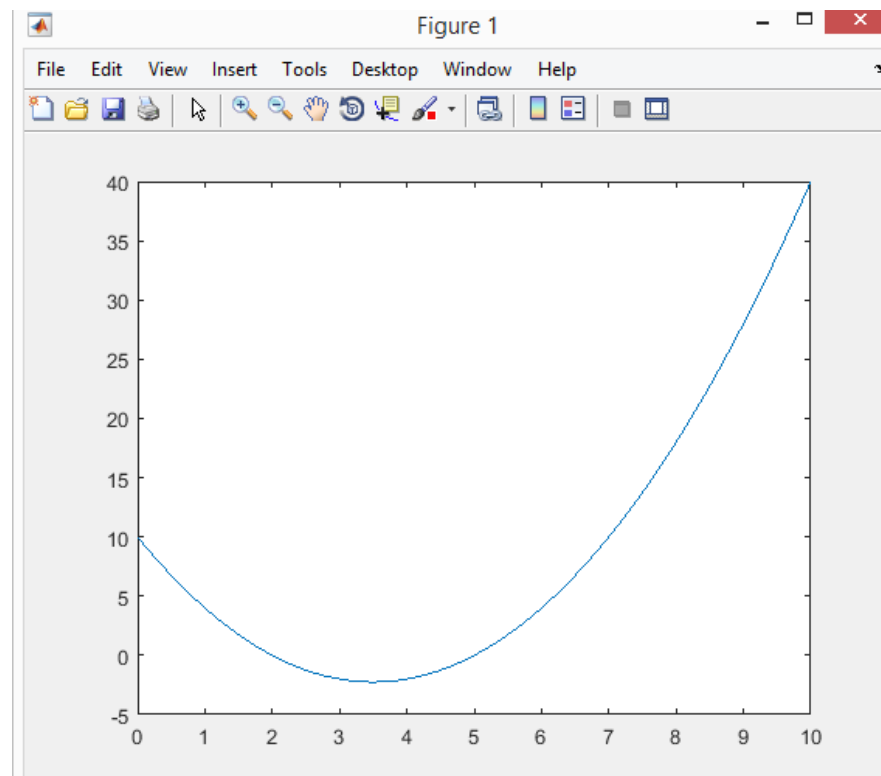
>> addOddNumbers

ans =

    2496
```

Problem 2

```
addOddNumbers.m  printPlot.m  randomMatrix.m  +
1  function printPlot()
2  -     start = 0;
3  -     final = 10;
4  -     pointsBetweenStartToFinal = 100;
5  -     domain = linspace(start,final,pointsBetweenStartToFinal);
6  -     range = (domain.^2) - (7.*domain) + 10;
7  -
8  -     plot(domain,range)
9  - end
```



Problem 3

```
Editor - C:\Users\misaie\Documents\MATLAB\randomMatrix.m
addOddNumbers.m x printPlot.m x randomMatrix.m x +
1 function reducedMatrix = randomMatrix()
2
3     rows = 5;
4     cols = 6;
5     randomMatrix = rand(5,6);
6     reducedMatrix = rref(randomMatrix);
7
8 end

ans =

    1.0000         0         0         0         0   -2.9408
         0    1.0000         0         0         0    2.4210
         0         0    1.0000         0         0    4.8410
         0         0         0    1.0000         0   -0.9541
         0         0         0         0    1.0000   -7.4771
```