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MatLab Assignment 1

**Problem 1**

Editor - C:\Users\misaie\Documents\MATLAB\addOddNumbers.m

addOddNumbers.m | printPlot.m | randomMatrix.m

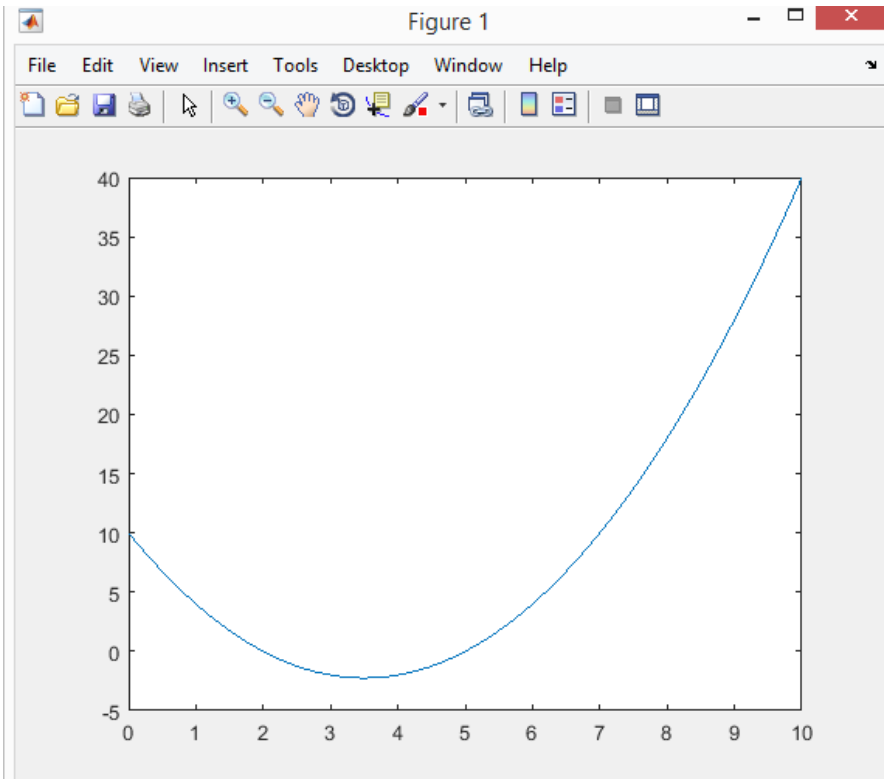
```
function sum = addOddNumbers()
    sum = 0;
    for number = 5 : 99
        if mod(number,2) ~= 0
            sum = sum + number;
        end
    end
end
```

```
>> 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 | printPlot.m | randomMatrix.m

```
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
```