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```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 133
% Program Description
%replace this text with your program description as a comment
%
% Assignment Information
%   Assignment:      Ma4_Task 3
%   Author:          Ayush Viswanathan, viswan11@purdue.edu
%   Team ID:         LC1-04
%   Contributor:     Jackson Bitterolf, jbittero@purdue.edu
%                   Nolan Hays, haysn@purdue.edu
%                   Roshan Sundar, rmsundar@purdue.edu
%   My contributor(s) helped me:
%       [ ] understand the assignment expectations without
%           telling me how they will approach it.
%       [ ] understand different ways to think about a solution
%           without helping me plan my solution.
%       [ ] think through the meaning of a specific error or
%           bug present in my code without looking at my code.
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

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## INITIALIZATIONS

```
M = input('Number of Rows: ');
N = input('Number of Columns: ');
matrix = zeros(M,N);
```

```
Error using input
Cannot call INPUT from EVALC.
```

```
Error in Ma4__Task3_viswan11 (line 24)
M = input('Number of Rows: ');
```

---

## CALCULATIONS

```
for i = 1:M
    for j = 1:N
        x = i * j;
        if mod(x,2) ~= 0
            matrix(i,j) = 0;
        end
        if mod(x,2) == 0
            matrix(i,j) = x;
        end
        if i == j
            matrix(i,j) = -1;
        end
    end
end
```

---

## OUTPUTS

```
disp(matrix);

%Case 1: M = 1, N = 5
%   Number of Rows: 1
%   Number of Columns: 5
%   -1      2      0      4      0

%Case 2: M = 4, N = 3
%Number of Rows: 4
%Number of Columns: 3
%   -1      2      0
%   2      -1      6
%   0       6     -1
%   4       8     12
```

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## ACADEMIC INTEGRITY STATEMENT

I have not used source code obtained from any other unauthorized source, either modified or unmodified. Neither have I provided access to my code to another. The project I am submitting is my own original work.

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