```
prompt="what is the plain text";
text=input(prompt);
num_rails=input("Number of rails");
encrypt_rail_fence_cipher(text,num_rails);
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function ciphertext = encrypt rail fence cipher(text, num rails)
    if num_rails == 1
        ciphertext = text;
        return;
    else
     rail = cell(1, num_rails);
    for i = 1:num rails
        rail{i} = '';
     end
    % Variables to track the current position and direction
     row = 1;
     direction_down = false;
   % Traverse the text and write characters to the appropriate rail
    for i = 1:length(text)
         rail{row} = [rail{row}, text(i)];
         if row == 1 || row == num_rails
             direction_down = ~direction_down;
         end
         if direction down
            row = row + 1;
         else
            row = row - 1;
         end
     end
    % Combine all rails to form the ciphertext
     ciphertext = '';
    for i = 1:num_rails
         disp(rail{i});
         ciphertext = [ciphertext, rail{i}];
     end
     disp("");
     disp(ciphertext);
 end
end
%Inputted String here - Hello World
%Number of rails - 4
```