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```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 133
% Program Description
%
%
% Assignment Information
%   Assignment:     Ma3_Task 1
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%   Team ID:        LC1-15
%   Contributor:    Collin Gernhardt, cgernhar@purdue.edu
%                   Rachel Evrard, revrard@purdue.edu
%                   Jonathan Budiman, jbudiman@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.

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

```
s = 50;
w = 60;
Aconst = 0.75;
vert = 45*(180/pi);
slatAng = 30*(180/pi);
```

CALCULATIONS

```
[F1, F2, F3] = Ma3_Task4_fractions_chen3633(slatAng, s, w);
b = Ma3_Task4_transmission_chen3633(F1, F2, F3, slatAng, w, s, vert,
 Aconst);
c = Ma3_Task4_absorb_chen3633(F2, vert, slatAng, Aconst, s, w);
```

OUTPUTS

```
fprintf("The transmission value for Blind 1 at setting 1 is %f.\n", b)
fprintf("The absorption value for Blind 1 at setting 1 is %f\n",c)
%%_____________________
```

The transmission value for Blind 1 at setting 1 is 0.108569.
The absorption value for Blind 1 at setting 1 is 0.827630

COMMAND WINDOW OUTPUTS

```
%setting 1
%The transmission value for Blind 1 at setting 1 is 0.108569.
%The absorption value for Blind 1 at setting 1 is 0.827630
%setting 2
%The transmission value for Blind 1 at setting 1 is -0.927919.
%The absorption value for Blind 1 at setting 1 is 1.380940
%setting 3
%The transmission value for Blind 1 at setting 1 is 1.186630.
%The absorption value for Blind 1 at setting 1 is -0.136585
%
```

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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