ME 318M Homework #3

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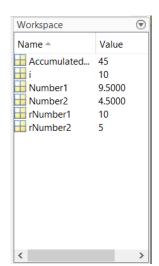
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Section Number: 17460

Problem 1:

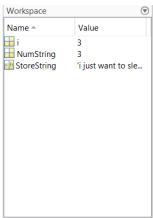
```
Number1 = input('Enter your first number: ');
 1 -
       Number2 = input('Enter your second number: ');
 3 -
       rNumber1 = round(Number1);
 4 -
       rNumber2 = round(Number2);
 5
 6 -
       disp([num2str(Number1), ' will be rounded to ', num2str(rNumber1), ...
       ' and ', num2str(Number2), ' will be rounded to ', num2str(rNumber2)])
 7
 8
 9 -
       AccumulatedSum = 0;
10
11 -
       if rNumber1 <= rNumber2</pre>
12 - 🖃
           for i = rNumber1:rNumber2
13 -
               AccumulatedSum = AccumulatedSum + i;
14 -
15 -
           disp(['Total sum of integers between ', num2str(rNumber1), ...
16
           ' and ', num2str(rNumber2), ' is ', num2str(AccumulatedSum)])
17
18 -
19 - 🖃
           for i = rNumber2:rNumber1
20 -
               AccumulatedSum = AccumulatedSum + i;
21 -
22 -
           disp(['Total sum of integers between ', num2str(rNumber2), ...
23
            ' and ', num2str(rNumber1), ' is ', num2str(AccumulatedSum)])
24 -
```

```
>> HW3_Prob1
Enter your first number: 4.5
Enter your second number: 9.5
4.5 will be rounded to 5 and 9.5 will be rounded to 10
Total sum of integers between 5 and 10 is 45
>> HW3_Prob1
Enter your first number: 9.5
Enter your second number: 4.5
9.5 will be rounded to 10 and 4.5 will be rounded to 5
Total sum of integers between 5 and 10 is 45
```



Problem 2:

How many strings do you want to enter? 3
Enter string number 1: HELLO
Your string number 1 is HELLO
Enter string number 2: IM TIRED
Your string number 2 is IM TIRED
Enter string number 3: i just want to sleep.
Your string number 3 is i just want to sleep.



Problem 3:

```
NumInt = input('How many integers do you want to enter? ');
2
3 - ☐ for i = 1:NumInt
4 -
          UserInput = input(['This is loop number ', num2str(i), ' and you '...
           'should enter your integer here: ']);
5
6 -
          if UserInput ~= round(UserInput)
7 -
              disp(['Hey that is not an integer -- I''m rounding it to ', ... ,
8
              num2str(round(UserInput)), '!'])
9 -
              disp('Press any key to continue.')
10 -
              pause
11 -
           end
12 -
           disp(['Your integer number ', num2str(i), ' is ', num2str(round(UserInput))])
13 -
```

```
>> HW3 Prob3
How many integers do you want to enter? 5
This is loop number 1 and you should enter your integer here: 3
Your integer number 1 is 3
This is loop number 2 and you should enter your integer here: 6.7
Hey that is not an integer -- I'm rounding it to 7!
Press any key to continue.
Your integer number 2 is 7
This is loop number 3 and you should enter your integer here: 4.1
Hey that is not an integer -- I'm rounding it to 4!
Press any key to continue.
Your integer number 3 is 4
This is loop number 4 and you should enter your integer here: 300
Your integer number 4 is 300
This is loop number 5 and you should enter your integer here: 532.321
Hey that is not an integer -- I'm rounding it to 532!
Press any key to continue.
Your integer number 5 is 532
```

