

Problem 3. Find the sum of all the numbers of the input vector

Find the sum of all the numbers of the input vector x.

Examples:

```
% Input  x = [1 2 3 5]
% Output y is 11

% Input  x = [42 -1]
% Output y is 41
```

Scratch Pad

```
x = [1 2 3 5]
```

```
x = 1×4
    1     2     3     5
```

```
disp(vecsum(x))
```

```
11
```

```
x = [42 -1]
```

```
x = 1×2
    42    -1
```

```
disp(vecsum(x))
```

```
41
```

Test Suite

```
try
% Test 1
x = 1;
y_correct = 1;
assert(isequal(vecsum(x),y_correct));
% Test 2
x = [1 2 3 5];
y_correct = 11;
assert(isequal(vecsum(x),y_correct));
% Test 3
x = [1 2 3 5];
y_correct = 11;
assert(isequal(vecsum(x),y_correct));
% Test 4
```

```
x = 1:100;  
y_correct = 5050;  
assert(isequal(vecsum(x),y_correct));  
catch ME  
    fprintf('%s\n', ME.message);  
end
```

Solution

```
function y = vecsum(x)  
    y = sum(x);  
end
```