

Cs005 Final Study Guide

For the first eight questions, assume the following variables have been initialized in the matlab workspace:

```
>> BAge = 12;
>> GAge = 7;
>> BName = 'Joe'
>> GName = 'joanne'
```

1. What does the expression: **BAge + GAge * 2** evaluate to?

A) 38	B) 26	C) 2
D) Inf	E) NaN	

2. What does the expression: **BAge + GAge / GAge** evaluate to?

A) 13	B) NaN	C) Inf
D) 2.71	E) 0	

3. What does the expression: **BAge / (GAge - GAge)** evaluate to?

A) "Error"	B) 1	C) Inf
D) 0	E) NaN	

4. What does the expression: **(BAge - BAge) / (GAge - GAge)** evaluate to?

A) 0	B) 1	C) Inf
D) -Inf	E) NaN	

5. What does the expression: **BName(2) == GName(2)** evaluate to?

A) 1	B) 0	C) 'o'
D) Inf	E) Error: Expression or statement is incorrect--possibly unbalanced	

6. What does the expressio: **BName(1) == GName(1)** evaluate to?

A) 1	B) 0	C) 'j'
D) 'j'	E) NaN	

7. What does the expression: **sort(GName)** evaluate to?

A) aemGN	B) GNaem	C) GName
D) Error: Expression or statement is incorrect--possibly unbalanced	E) aejnno	

8. What does the expression: **upper(BName)** evaluate to?

A) BNAME	B) joe	C) JOE
D) Error: Expression or statement is incorrect--possibly unbalanced	E) jOE	

(Expect two new questions on legal variable/function names)

9. Which variable name below is legal?

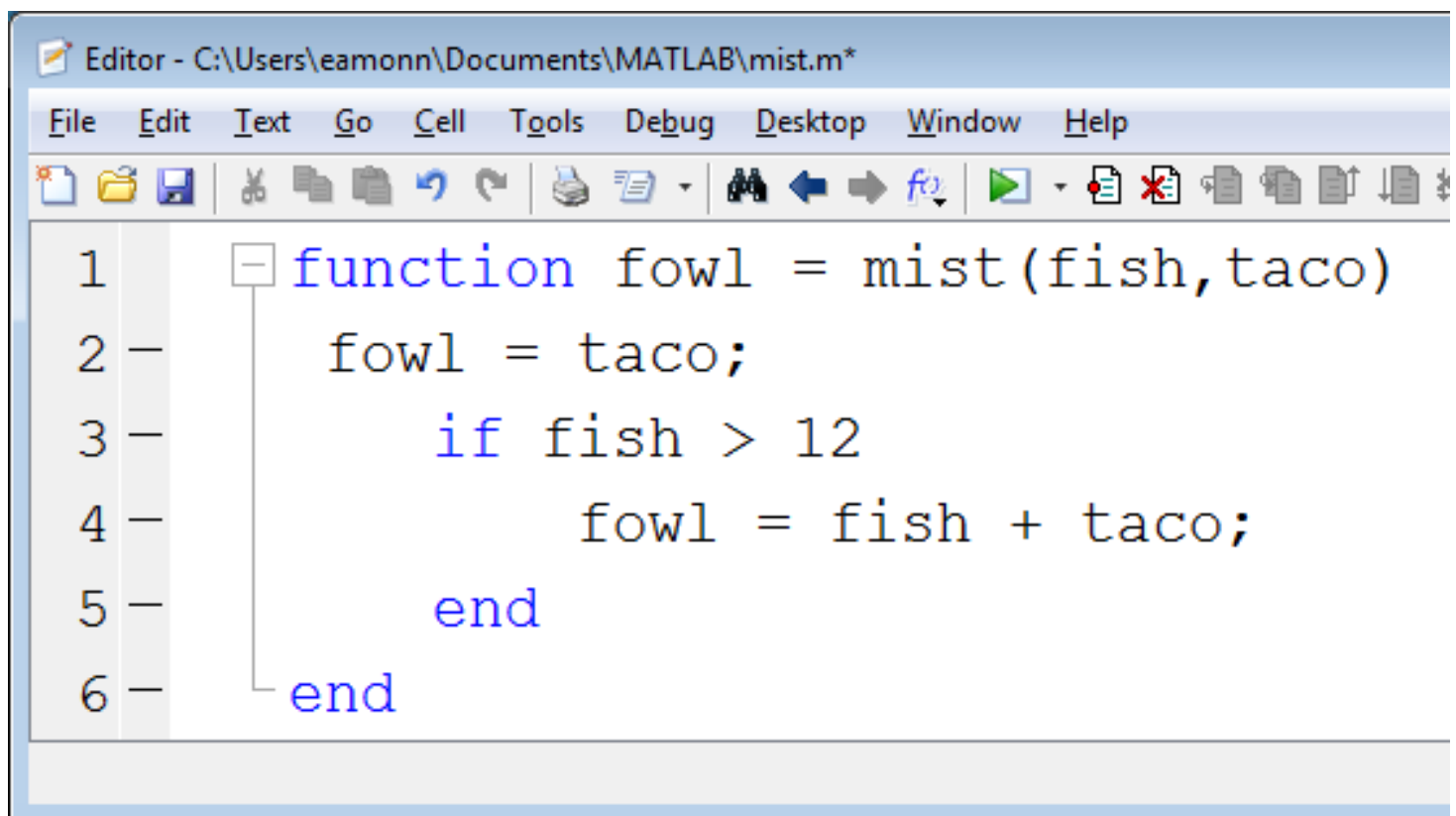
A) 2legit2quit	B) HammerTime	C) M.C.Hammer
D) U Can't Touch This	E) U Cant Touch This	

10. Which variable name below is legal?

A) Vanilla-Ice	B) @ice	C) @ICE
D) Ice	E) 2Iced	

(Expect 5 to 10 question that ask you to trace code with different arguments)

Use the function below to answer the next set of questions.

A screenshot of a MATLAB Editor window titled 'Editor - C:\Users\eamonn\Documents\MATLAB\mist.m*'. The window has a menu bar with 'File', 'Edit', 'Text', 'Go', 'Cell', 'Tools', 'Debug', 'Desktop', 'Window', and 'Help'. Below the menu bar is a toolbar with various icons. The main area shows a function definition for 'mist' with the following code:

```
1 function fowl = mist(fish,taco)
2     fowl = taco;
3     if fish > 12
4         fowl = fish + taco;
5     end
6 end
```

What value is assigned to **ans** in the code below. In some cases the answer may be "Error: Unexpected MATLAB expression."

11. >> **ans = mist(10,10)**

A) 10	B) 20	C) 100
D) "Error: Unexpected..	E) NaN	

12. >> **ans = mist(50,10)**

A) 10	B) 20	C) 50
D) 60	E) NaN	

13.>> **ans = mist(10,50)**

A) 10	B) 20	C) 50
D) 60	E) "fish taco"	

14.>> **ans = mist(13,50)**

A) 13	B) 50	C) 63
D) "Error: Unexpected..	E) "taco fish"	

15.>> **ans = mist(floor(12.5),99.5)**

A) 12.5	B) 12	C) 13
D) 99.5	E) 99	

Expect a question that tests if you understand how to swap to numbers.

Look at this code:

```
>> X = [];  
>> X = [X 7];  
>> X = [X 7];
```

What is the value of X now? Expect some questions that test your understanding of this.

Look at this code:

```
>> Y = 3;  
>> Y = [2 Y];  
>> Y = [Y 9];
```

What is the value of Y now? Expect some questions that test your understanding of this.

Assume that Len holds the length of a string, A.

Look at this loop:

```
for i = 1 : Len
    disp( A(i) );
end
```

and this loop

```
for i = 1 : Len
    disp( A(Len + 1- i) );
end
```

What does each string do, say when the string A is 'fink'

What does this code assign to X?

```
X = [];
```

What about this?

```
X = [1 9];
```

What about this?

```
X = [1 : 9];
```

What about this?

```
X = [ [1 9] [1 9] ];
```

What about this?

```
X = [ [1 2] [ 2 1] [ 1 6] ];
```

What about this?

```
X = ['radar' , 'radar'];
```

What about this?

```
X = ['radar' , ' ', 'radar'];
```

What about this?

```
X = ['radar' , num2str(17)];
```