

Quiz #1

Do **only 2** of the following 3 questions:

Question 1: (10 points) Find the output of the following Fortran 90 program. Your answer should be the same as the one which will be displayed on the screen.

```
PROGRAM MyProgram
```

```
IMPLICIT NONE
```

```
REAL :: x
```

```
INTEGER :: n
```

```
CHARACTER(10) :: MyString, YourString*4, TheirString*7
```

```
x=4.0-5.0/2.0
```

```
n=4-5/2
```

```
TheirString="My " // "name"
```

```
MyString="University"
```

```
YourString=MyString(3:6)
```

```
PRINT *, "x= ", x
```

```
PRINT *, "n= ", n
```

```
PRINT *, "TheirString= ", TheirString
```

```
PRINT *, "YourString= ", YourString
```

```
END PROGRAM MyProgram
```

Question 2: (10 points) Decide whether the following are true or false:

(a) In fortran 90

$3.0 - 5/2$ is equal to 1.

(b) If n is a variable of type integer whose value is 7, then the value of n after the execution of the statement

$$n = n * (n - 1)$$

is equal to 42

(c) $m\&m$ is a valid variable name in Fortran 90.

(d) Suppose that x is a variable of type REAL, then the value of x after the execution of the statement

$$x = 2.0 + \text{SQRT}(16.0) - (2.0) ** 3$$

is -2.0

Question 3: (10 points) Write a Fortran 90 program to do the following:

(a) It reads 2 real numbers from the screen.

(b) It calculates the sum of these two numbers.

(c) It displays the sum.