

Quiz #2

Do **all** of the following 2 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. The input of the program is 3.0 (i.e, when the user runs the program and encounters the statement "Enter x", he/she enters 3.0.). Assume that the program has no compilation/execution/run-time errors.

```
PROGRAM MyProgram
```

```
IMPLICIT NONE
```

```
REAL :: x, fx
```

```
INTEGER :: nVal
```

```
PRINT *
```

```
PRINT *, "Enter x"
```

```
READ *, x
```

```
IF (x > 3.0) THEN
```

```
    fx = 2.0 * x - 5.0
```

```
ELSE
```

```
    fx = 3.0 * x + 0.1
```

```
END IF
```

```
fx = 2 * fx
```

```
nVal=INT(fx)

SELECT CASE (nVal)

    CASE (1 : 10)

        PRINT *, "ALPHA"

    CASE (11 : 18)

        PRINT *, "BETA"

    CASE DEFAULT

        PRINT *, "GAMMA"

END SELECT

END PROGRAM MyProgram
```

Question 2: (10 points) Find the error/errors in the following Fortran 90 program.

```
BEGIN PROGRAM MyProgram1

IMPLICIT NONE

INTEGER :: x; fx

x = 2

IF (x = 2)

    fx = 3x - 1

ELSE

    f(x) = x
```

```
ENDIF

INTEGER :: n

SELECT CASE (fx)

  CASE (: 3)

    PRINT *

    pRiNt *, "good"

  CASE (4.0)

    PRINT *, "Very Good"

  CASE (5 : 10)

    PRINT *, "Excellent"

  CASE DEFAULT

    PRINT *, "Fair"

END SELECT

IF (fx > 2) PRINT *, ":Done:"

END PROGRAM MyProgram
```