

CS 1014

PRACTICE QUESTIONS SET # 1

1. Determine whether a variable name is valid or not valid in Fortran 90.

SumOfGrades	SumOfMidtermScores	Final_Score_Average
\$Amount	2ndNumber	Net-Pay
Percent	Stop	%Rate
Salesperson_Commission_Total_In_June		

2. In this question, you are required to identify which one is an integer, a real number or a character type (non-numeric) data. They are all valid constants.

525	'190-456-6789'	"Happy Birthday"	678.89	890.0
45.	1.6E+02	4569045	'567988'	-234
-234.56	+67	+45.23	-9.6E-03	

3. Write an equivalent Fortran expression for each of the following algebraic expression.

a) $\frac{a^2 + b^2}{3} + \frac{a + b}{a - b}$

b) $\frac{a}{b}(c + d) + 10x$

c) $x^y + y^{x^2} + 9 - z$

d) $(a + b)^{x-y} + axy + \frac{c}{d}$

e) $ut + \frac{1}{2}gt^2$

4. Write an equivalent algebraic expression for each of the following Fortran expression.

a) $A * 5 + B / C - 10$

b) $(A ** 2 + B) / X + Y ** 3$

c) $X ** 2 + Y ** B * P / Q - Y / (Z ** 2 + X ** 3)$

d) $(X + Y) / ((Y + A / B) ** 2 / (A + B ** C))$

e) $X ** (A ** 2 + B) / (X / Y + Y / X)$