**TUTORIAL 1**

1. What is the type of each of the following expressions? (Some of them give type errors.)
2. [’a’,’b’,’c’]
3. (’a’,’b’,’c’)
4. [(False,’0’),(True,’1’)]
5. ([False,True],[’0’,’1’])
6. [tail,init,reverse]
7. "squid" ++ "clam"
8. [True, False, True, True]
9. [True, False, ’a’]
10. (True, False, ’a’)
11. What is the type of each of the following functions?(Need Not do this: Just write the corresponding type when function declaration is made)

second xs = head (tail xs)

swap (x,y) = (y,x)

pair x y = (x,y)

double x = x\*2

1. Write a Haskell function to find the cube of a Double. What is the type of this function?
2. Write a Haskell function to find the sum of three Doubles. What is the type of this function?
3. Write a Haskell function to reverse a list. What is the type of this function?
4. Using no functions other than helper functions, you write yourself, implement the following Prelude functions. Your Program should include Error Message wherever necessary.
5. To return head of a list
6. To return tail of a list
7. To return length of a list
8. To return sum of a list
9. Write a function named add1 that takes a number and returns the number one greater than add1's input.

Example if we compute add1 5, we should get 6.

1. Write a function named always0 that takes a number and always returns 0.