## Lecture 5.2

**Topics** 

1. Functions – Continued

## 1. Functions – Continued

Let's briefly go over the setup of a function specified as below.

```
// Type Definition
struct IntNode {
 int iData;
 struct IntNode* next;
};
typedef struct IntNode* IntList;
typedef struct IntNode* IntNodePtr;
/* Function Prototype */
int insertFirst(int, IntList*);
/* Function Definition */
/**
* Function Name: insertFirst(int iOld, IntList* addrOfHead)
* Description: Inserting node at the front of linked list
* Pre/Entry: iOld : Value to be inserted
                 addrOfHead: address of head
*
* Internals: The given linked list is updated
* Post/Exit: Returns a Boolean value
int insertFirst(int iOld, IntList* addrOfHead) {
 IntNodePtr inPtr;
 int iBool;
 /* Starting the list creation */
 iBool = 1;
 inPtr = createNode(iOld);
 if (inPtr) {
   if (*addrOfHead) { /* Inserting the node to the list */
     inPtr->next = *addrOfHead;
     *addrOfHead = inPtr;
   } else {
     *addrOfHead = inPtr;
 } else {
   iBool = 0;
 return iBool;
}
```