## Assignment # 6       Due: Mar. 4, 2006 (submit before 11:59 pm)

This programming assignment will give you an introduction to the use of the IF selection statement. The user will be asked to provide his name, his pay rate and the number of hours worked in the last year. In response, your program will determine the year's earnings and the amount of income tax, which should be calculated according to the table below. Two sample runs of the program appear at the bottom of this page, with user input shown in **bold** type. Your program will be **required** to produce output in **exactly** the form shown. Notice the way in which special cases should be handled. You must use minimum 4 functions, and the main. **Main function declares variables and calls functions only.**

( p. 528 )

Sample Program for strings w/ spaces

```
#include <stdio.h>
int main () {
    char Name [21];
    printf ("Enter Name:");
    scanf ("% 20 [^\n]", Name);
    printf (" Your Name %s\n", Name);
    return 0;
}
```

| If your income is ... | | Your tax is ... | | |
|---|---|---|---|---|
| less than $3500 | | $0.00 | | |

Otherwise, if your income is ...

| not less than ... | but less than ... | Your tax is ... | plus ... | of the amount over ... |
|---|---|---|---|---|
| $3,500 | $8,000 | $105.00 | 6% | $3,500 |
| 8,000 | 20,000 | 375.00 | 11% | 8,000 |
| 20,000 | 34,000 | 1695.00 | 17% | 20,000 |
| 34,000 | 52,000 | 4075.00 | 24% | 34,000 |
| not less than $52,000 | | 8395.00 | 32% | 52,000 |

**Program Sample Output**

```
Phil Farquhar - Programming Assignment 6

This program will calculate and report the user's tax liability.
==================================================================
Please enter your name : Toots Sweet
hours worked last year : 2000
      and your pay rate : $ 4.75

Toots Sweet, your income was $9500.00
and your tax liability is $540.00.
```

```
Phil Farquhar - Programming Assignment 6

This program will calculate and report the user's tax liability.
==================================================================
Please enter your name : Miss Informed
hours worked last year : -800
      and your pay rate : $ 6.50

Miss Informed, your number of hours worked is invalid.
```