## Worksheet 4

4.1 Try to walkthrough the following program and write down the expected results. Key-in the program and compare the results after execution. This program helps you to understand the use of if-else statement.

```
/* This program finds the payroll for an employee */
#include <stdio.h>
#define MaxRegHour }8
#define OT_factor 1.5
int main (void)
{
    int Hour;
    float Rate;
    float GrossPay;
        printf("\nWelcome. This program finds the Gross Pay");
        printf(" for input hours worked and rate.\n\n");
        printf("Please input the hourly rate of pay : ");
        scanf("%f", &Rate);
        printf("Please input the number of hours worked\n");
        printf("to a whole number of hours : ");
        scanf("%d", &Hour);
        if (Hour <= MaxRegHour)
            GrossPay = Rate * Hour;
        else
            GrossPay = Rate * MaxRegHour
                    + OT_factor * Rate * (Hour - MaxRegHour);
        printf("\nHours worked = %5d", Hour);
        printf("lnHourly pay rate = %7.2f", Rate);
        printf("lnThe Gross pay = $%9.2f", GrossPay);
        printf("\n");
        return 0;
}
```


## Sample running 1:

Welcome. This program finds the Gross Pay for input hours worked and rate.
Please input the hourly rate of pay : $20.0<C R>$
Please input the number of hours worked
to a whole number of hours : 70<CR>

## Sample running 2:

Welcome. This program finds the Gross Pay for input hours worked and rate.
Please input the hourly rate of pay : $15.0<C R>$
Please input the number of hours worked
to a whole number of hours : $100<C R>$

