Worksheet 6

6.1   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 *scope of variables*.

```c
/* This program shows the scope of variables */

#include <stdio.h>
void FunA (void);
void FunB (void);

int main (void)
{
   int x;

        printf("\nStart program.");
        printf("\n");
        x = 1;
        printf("\nGlobal x = %d", x);
        FunB();
        printf("\nGlobal x = %d", x);
        printf("\n");
        printf("\nEnd program.");
        printf("\n");
        return 0;
}

void FunA (void)
{
   int x;

        printf("\n**** Start Function A.");
        x = 3;
        printf("\n**** In Function A,  x = %d", x);
        printf("\n**** End Function A.");

}

void FunB (void)
{
   int x;

        printf("\n** Start Function B.");
        x = 2;
        printf("\n** In Function B,  x = %d", x);
        FunA();
        printf("\n** In Function B,  x = %d", x);
        printf("\n** End Function B.");

}
```

Sample running :

Start program.