## Anuran, Engelene

## Lecture 2 Assignment

1.

```
Start here
          × *as2.c × as1.c ×
           #include <stdio.h> // accessing the main library
    3
           int main (void) // main function to start the execution of the program
    4
               int number, reversed; // declaring the variables in the program
               reversed = 0; // initializing the value of the reversed to 0
   10
               printf("Enter a 2-digit number: "); // printing a message for the user
   11
               scanf("%d", &number); // user can input numbers to make it reversed
   12
   13
               while(number != 0){ // while the number is not equal to 0, the equations will
   14
               // for example, the number is 25
   15
                reversed *= 10; // reversed = 0 x 10 = 0
   16
   17
18
                reversed += number%10; // reversed = 0 + 25%10 = 5
                number /= 10; // to remove the last digit of the number given by the user
// it will continiously execute until the number is already equal to 0
   19
   20
   21
   23
24
               // reversed = 0 x 10 = 0
// reversed = 0 + 2%10 = 2
   25
   26
               printf("The reverse of the number is %d:", reversed); // statement to show the reversed of the number
   27
   28
   29
```

```
2.
                    × *as2.c × as1.c ×
                     #include <stdio.h> // accessing the main library
                     int main(void) // main function to start the execution of the program
                          int number, reversed; // declaring the variables in the program
               8
                          reversed = 0; // initializing the value of the reversed to 0
               9
              10
                         printf("Enter a 3-digit number: "); // printing a message for the user
              11
                         scanf("%d", &number); // user can input numbers to make it reversed
              12
              13
                         while(number != 0) { // while the number is not equal to 0, the equations will
                                             // continiously execute
              15
                          // for example, the number is 25
              16
                          reversed *= 10; // reversed = 0 x 10 = 0
                          reversed += number 10; // reversed = 0 + 25 10 = 5 number /= 10; // to remove the last digit of the number given by the user
              17
              18
              19
              20
              21
                         // we already got 5 as our first digit
              22
                          // our number now is 2
              23
                          // reversed = 0 \times 10 = 0
              24
              25
              26
                         printf("The reverse of the number is %d:", reversed); // statement to show the reversed of the number
              27
                          return 0; // termination and shows the success of the code
              28
              29
```

- 3. a) The output is: 1
  - b) The output is: 0
  - c) The outputs are: **18, 8 and 9** d) The outputss are: **12, 1 and 1**