ENGG 1410 Assignment 2

```
Level 1
   1. %
   2. char (is a reserved word), 6_05 (starts with a number), A$ compiles but is a language extension. _1312 and _ compile but are reserved
     for the compiler.
   3. Assuming we #include <stdio.h>
  Testing .....1...2...3
   4. (), ++, *, /, %, +, -, !=
  // Missing #include <stdio.h>
  int main(Void) // Should be: int main(void)
      INT sum; // Should be: int sum;
      /* Comput ReZult // Should be: /* Compt Result */
      sum = 25 + 37 -19 // Should be sum = 25 + 37 -1;
      /* Display Results // // Should be: /* Display Results */
      printf("The answer is %i\n" sum); // Should be: printf("The answer is %i \n", sum);
      return 0;
   6. AND -> &&, OR -> ||, NOT -> !
AND
```

A B R

Α	В	R
0	0	0
0	1	0
1	0	0
1	1	1

OR

Α	В	R
0	0	0
0	1	1
1	0	1
1	1	1

NOT

- 1. The result is 95
- 2. x = 4.5, n = 4
- 3. o a) it prints the ascii value of c4
 - o b) it prints the ascii character of i
 - o c) to do float division
 - o d) because the values correspond to different ascii values.
- 4. a) true
 - o b) 17
 - o c) 5.0

```
o d) 5.75
   5. o a) 2.5
        o b) 10.0
        o c) 11.2
2 Tracing
  12. x = 1.5, y = 1
  13.
  i = 4
 j = 9
  k = 2 m = 9
  i = 4
  j = 9
  k = 2 n = 10
  i = 4
  j = 9
  k = 10
  i = 4
  j = 9
  k = 10
  14. it will print 15.0
3 Programming
  15.
  #include <stdio.h>
  int main(void) {
      printf("Enter an amount:");
      float val;
```

```
scanf("%f", &val);
    printf("With tax added: $%.2f", val * 1.13);
    return 0;
}
16.
#include <stdio.h>
int main(void) {
    printf("Enter the number of seconds to evaluate: ");
    int seconds;
    scanf("%d", &seconds);
    int minutes = seconds / 60;
    seconds %= 60;
    int hours = minutes / 60;
    minute %= 60;
    printf("In 100 seconds there is %d Hours, %d Minutes and %d Seconds.", hours, minutes, seconds );
    return 0;
}
17.
#include <stdio.h>
int main(void) {
    printf("Enter a dollar amount: ");
    int dollars;
    scanf("%d", &dollars);
    printf("$20 bills: ", dollars / 20);
    dollars %= 20;
    printf("$10 bills: ", dollars / 10);
    dollars %= 10;
    printf("$5 bills: ", dollars / 5);
    dollars %= 5;
    printf("$1 bills: ", dollars);
```

```
return 0;
}

18.

#include <stdio.h>

int main(void) {
    printf("Enter the first complex number in the form Re+jIM: ");
    int real1, real2, imag1, imag2;
    scanf("%d+j%d", &real1, &imag1);
    printf("Enter the second complex number in the form Re+jIM: ");
    scanf("%d+j%d", &real2, &imag2);
    printf("The result is: ", real1 + real2, imag1 + imag2);
    return 0;
}
```