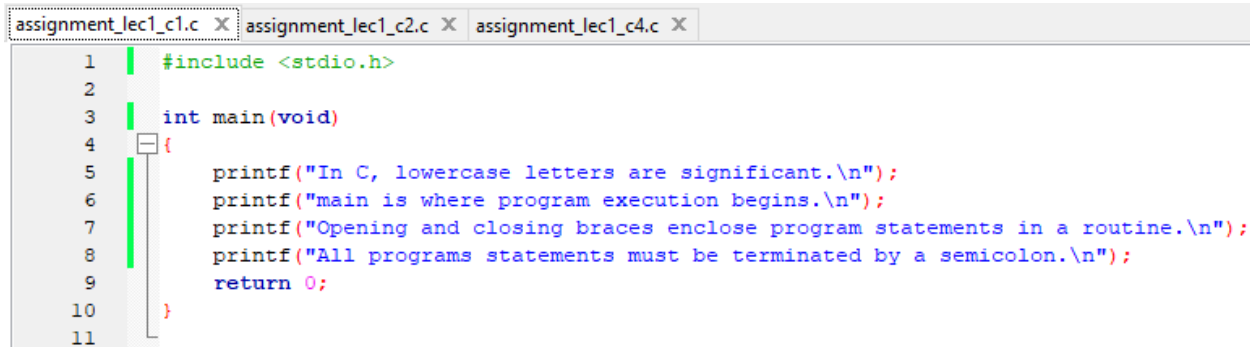


Basic Syntax in C

Lecture 1 Assignments

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1.



```
assignment_lec1_c1.c X assignment_lec1_c2.c X assignment_lec1_c4.c X
1 | #include <stdio.h>
2 |
3 | int main(void)
4 | {
5 |     printf("In C, lowercase letters are significant.\n");
6 |     printf("main is where program execution begins.\n");
7 |     printf("Opening and closing braces enclose program statements in a routine.\n");
8 |     printf("All programs statements must be terminated by a semicolon.\n");
9 |     return 0;
10 | }
11 |
```

2. The output I expect from the given codes is that it will print all the print statements in a single line, except for the last print function, `\n`, which will print a new line. My anticipated output would be as follows:

Testing.....1...2..3

Given codes:

```
#include <stdio.h>
int main (void){
    printf ("Testing...");
    printf ("....1");
    printf ("...2");
    printf ("..3");
    printf ("\n");
    return 0;
}
```

3.

```
assignment_lec1_c1.c X assignment_lec1_c2.c X assignment_lec1_c4.c X
1 | #include <stdio.h>
2 |
3 | int main(void)
4 | {
5 |     int a, b, c;
6 |     a = 87;
7 |     b = 15;
8 |     c = a - b;
9 |     printf("The difference between %d and %d is %d.\n", a, b, c);
10 |    return 0;
11 | }
12 |
```

4. The errors I saw from the unedited codes are:

- Void – letter V should be in lowercase because C is case-sensitive.
- No opening bracket "{" after the function.
- INT – it should be "int" because C is case-sensitive.
- Missing semi-colon at the variable.
- Multiple lines comment – it should be double slashes to comment a single line only at /* COMPUTE RESULT. In the given code, the computation won't run because it's considered as a comment.
- Ending with slashes in the comment - it's okay not to put // at the end of a comment if you only use the comment //, except for /* because you need to close it with */.
- Missing a comma in the print statement. Before typing the variable name, comma should be before it or after the double quotation.

```
#include <stdio.h>
int main(Void)
    INT sum;
    /* COMPUTE RESULT
    sum = 25 + 37 - 19
    /* DISPLAY RESULTS //
    printf ("The answer is %i\n" sum);
    return 0;
}
```

Corrected:

```
assignment_lec1_c1.c X assignment_lec1_c2.c X assignment_lec1_c4.c X
1  #include <stdio.h>
2  int main(void)
3  {
4      int sum;
5      // COMPUTE RESULT
6      sum = 25 + 37 - 19;
7      // DISPLAY RESULTS
8      printf("The answer is %i\n", sum);
9      return 0;
10 }
11
```

5. The output I expect from the given code is an error because, instead of a semi-colon, the given code uses a dot at the end of the variable "answer = 100.", resulting in an error. But if corrected the output would be: The result is 95

```
#include <stdio.h>
int main (void){
int answer, result;
answer = 100.
result = answer - 10;
printf ("The result is %i\n", result + 5);
return 0;
```