UNIVERSITY OF THE PHILIPPINES VISAYAS CMSC 21 | Fundamentals of Programming 2nd Semester AY 2021-2022

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Basic Syntax in C Lecture 1 Assignments

1.

2. The expected output would be:

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

```
/* Judelle Gaza - CS21 - Assignment 1; assignment_lec1_c2.c*/
#include <stdio.h>
int main(void)
{
    //Declaring variable types
    int a,b,result;

    //Assigning values to a , b , and result
    a = 15;
    b = 87;
    result = b - a;

    //outputs the integers and the difference to the terminal
    printf("Subtracting %d from %d results to %d", a, b, result);
    return 0;
}
```

4. Identify the syntactic errors in the following program. Then type in and run the corrected program to ensure you have correctly identified all the mistakes.

```
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 }
```

Syntactic errors in the program would be:

```
Line 2: int main(Void)
```

- V is capitalized

Line 4: INT sum;

- INT is capitalized

Line 5: /* COMPUTE RESULT

- Comment was never closed

Line 6: sum = 25 + 37 - 19

- Statement not terminated by a semicolon (;)

Line 7: /* DISPLAY RESULTS //

- Comment was never closed

Line 8: printf ("The answer is %i\n" sum);

 Sum is not preceded by a comma (,) to separate the string and the variable

Correct execution would be:

```
/* Judelle Gaza - CS21 - Assignment 1; assignment_lec4_c4.c*/
#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;
}
```

5. The output will result to a syntax error:
 error: expected ';' before 'result'
 Line 4: answer = 100.

- 100 should be followed by a semicolon (;) instead of a period (.) to terminate the statement