Basic Syntax in C
Lecture 1 Assignments

1. Write a program that prints the following text at the terminal.

```c
#include <stdio.h>


int main(void)
{
    //a
    printf("In C, lowercase letters are significant.\n");

    //b
    printf("main is where program execution begins.\n");

    //c
    printf("Opening and closing braces enclose program statements in a routine.\n");

    //d
    printf("All program statement must be terminated by a semicolon.\n");

    return 0;
}
```

2. What output would you expect from the following program?

```c
#include <stdio.h>

int main(void)
{
    //prints the strings
    printf("Testing...");
    printf("....1");
    printf("...2");
    printf("..3");
    printf("\n");

    return 0;
}
```

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

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3. Write a program that subtracts the value 15 from 87 and displays the result, together with an appropriate message, at the terminal.

```c
#include <stdio.h>


int main(void)
{
    //declared the variables
    int x, y, difference;

    //assigned the values
    x= 15;
    y= 87;
    difference= y-x;

    //prints the statement and the result
    printf("The difference when you subtract x=%d from y=%d is =%d" ,x,y,difference);

    return 0;

}
```

```
The difference when you subtract x=15 from y=87 is =72
```

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.

```c
#include <stdio.h>

/*
// must not start with capital letter (void)
int main(Void)
{

    // must not be in all caps (int)
    INT sum;

    // comment was not closed so it
    covers the lines of code below
    and read as comment
    /* COMPUTE RESULT


    // must declare the variables
    and assign the values

    sum= 25+37-19

    // comment was not closed
    /* DISPLAYS RESULTS

    //lacking (,) comma
    printf("The answer is %i\n" sum);
    return 0;
} */
```

```c
int main(void)
{

    //declaring variables
    int x,y,z,sum;

    //assigning values
    x= 25;
    y= 37;
    z= -19;
    sum= 25+37-19;

    //printing the values
    printf("The answer is :%d\n", sum);
    return 0;
}
```

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5. What output might you expect from the following program?

```c
#include <stdio.h>


int main(void)
{
 // declaring the variables
 int answer, result;

 // assigning values
 answer = 100;
 result= answer - 10;

 //printing the results
 printf("The result is %i\n", result + 5);
 return 0;
}
```

```
The result is 95
```