

Basic Syntax in C

Lecture 1 Assignments

1. Write a program that prints the following text at the terminal.
 - a. In C, lowercase letters are significant.
 - b. main is where program execution begins.
 - c. Opening and closing braces enclose program statements in a routine.
 - d. All program statements must be terminated by a semicolon.

```
#include <stdio.h>
int main()
{
    printf("In C, lowercase letters are significant.\n");
    printf("main is where program execution begins.\n");
    printf("Opening and closing braces enclose program statements in a routine.\n");
    printf("All program statements must be terminated by a semicolon.\n");

    return 0;
}
```

Save your code as assignment_lec1_c1.c

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

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

Output: Testing.....1...2..3

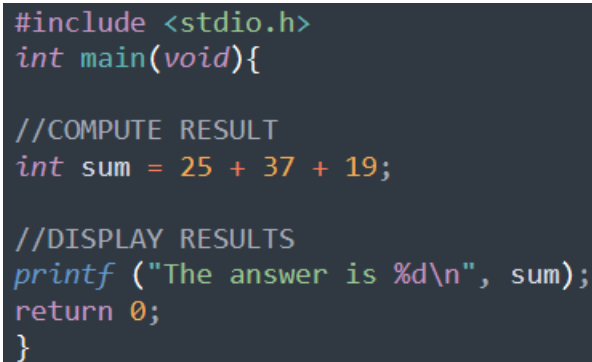
3. Write a program that subtracts the value 15 from 87 and displays the result, together with an appropriate message, at the terminal.

```
#include <stdio.h>
int main()
{
    int num1=87,num2=15;//variable declaration
    int sub=num1-num2;//subtraction
    printf("The difference of %d and %d is %d\n",num1,num2,sub);
    return 0;
}
```

Save your code as assignment_lec1_c2.c.

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.

```
#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;
}
```



```
#include <stdio.h>
int main(void){

//COMPUTE RESULT
int sum = 25 + 37 + 19;

//DISPLAY RESULTS
printf ("The answer is %d\n", sum);
return 0;
}
```

Save your code as assignment_lec4_c4.c

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

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

Output: The result is 95

