

THE STACK (Sample code):

```
#include <stdio.h>
#include <stdlib.h>

void function1(void) {
    int A = 50;
    int B = 42;
    float X = 3.14159;
    float Y = 2.71828;
    printf("Function 1\n");
    printf("%d+%d=%d\n", A, B, A+B);
    printf("%f+%f=%f\n", X, Y, X+Y);
}
```

```
void function2(void) {
    int v1, v2;
    float cs, ua;
    printf("Function 2\n");
    printf("v1+v2=%d\n", v1+v2);
    printf("cs+ua=%f\n", cs+ua);
}
```

```
void function3(void) {
    float cs, ua;
    int v1, v2;
    printf("Function 3\n");
    printf("v1+v2=%d\n", v1+v2);
    printf("cs+ua=%f\n", cs+ua);
}
```

```
int main(void) {
    function1();
    function2();
    function3();
    return 0;
}
```