

7. To write and simulate *C Programs for ARM* microprocessor using KEIL (Demonstrate with the help of a suitable program)

```
#include <lpc214x.h>           //holds good for all lpc214 series processors
```

```
int main()
{
    int a,b,c,d,e,f;
    a=5;
    b=3;
    c=a+b;
    d=a-b;
    e=a*b;
    f=a/b;
    return 0;
}
```

OUTPUT:

Press F7, then press Ctrl + F5 (start debug session) and keep pressing F11. You'll notice the following.

Call Stack + Locals		
Name	Location/Value	Type
main	0x00000104	int f()
a	0x00000005	auto - int
b	0x00000003	auto - int
c	0x00000008	auto - int
d	0x00000002	auto - int
e	0x0000000F	auto - int
f	0x00000001	auto - int

NOTE:

1. Please have/include startup.s for this program. We require startup.s only for C programs not for ASM files.