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**Section : A1**

### **C Code:**

```
#include<stdio.h>

int accum = 0;

int sum(int x, int y){
    int t = x+y;
    accum += t;
    return t;
}

void main(){

    // printf("%d",accum);
}
```

### **Commands:**

**1) For Assembly File (.s):**

>> gcc -S task1.c -o task1.s

**2) For Object File (.o):**

>> gcc -c task1.c -o task1.o

**3) To Disassemble the Object Code:**

>> objdump -d task1.o

**4) For Executable File (.exe);**

>> gcc task1.c -o task1.exe

## Assembly and Object Code:

```
Windows PowerShell
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS D:\Tech\Programming\COAL with C\47-BSCS-20> objdump -d task1.o

task1.o:      file format pe-i386

Disassembly of section .text:

00000000 <_sum>:
 0: 55          push    %ebp
 1: 89 e5       mov     %esp,%ebp
 3: 83 ec 10    sub     $0x10,%esp
 6: 8b 55 08     mov     0x8(%ebp),%edx
 9: 8b 45 0c     mov     0xc(%ebp),%eax
 c: 01 d0       add     %edx,%eax
 e: 89 45 fc     mov     %eax,-0x4(%ebp)
11: 8b 15 00 00 00 00 mov     0x0,%edx
17: 8b 45 fc     mov     -0x4(%ebp),%eax
1a: 01 d0       add     %edx,%eax
1c: a3 00 00 00 00 00 mov     %eax,0x0
21: 8b 45 fc     mov     -0x4(%ebp),%eax
24: c9         leave  %eax
25: c3         ret

00000026 <_main>:
26: 55          push    %ebp
27: 89 e5       mov     %esp,%ebp
29: 83 e4 f0    and     $0xffffffff0,%esp
2c: 83 ec 10    sub     $0x10,%esp
2f: e8 00 00 00 00 call    34 <_main+0xe>
34: a1 00 00 00 00 mov     0x0,%eax
39: 89 44 24 04 mov     %eax,0x4(%esp)
3d: c7 04 24 00 00 00 00 movl    $0x0,(%esp)
44: e8 00 00 00 00 call    49 <_main+0x23>
49: 90         nop
4a: c9         leave  %eax
4b: c3         ret

PS D:\Tech\Programming\COAL with C\47-BSCS-20> |
```