Module: R1: C Programming
Section: Build Systems **Task:** Make or Break

Task 4.1
Make or Break

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1. **Code Snippets:**
    a. **header.h:**

```
#ifndef HEADER_H
#define HEADER_H

#include<stdio.h>

//Function Prototype

int add(int *x, int *y);

#endif
```

    b. **main.c:**

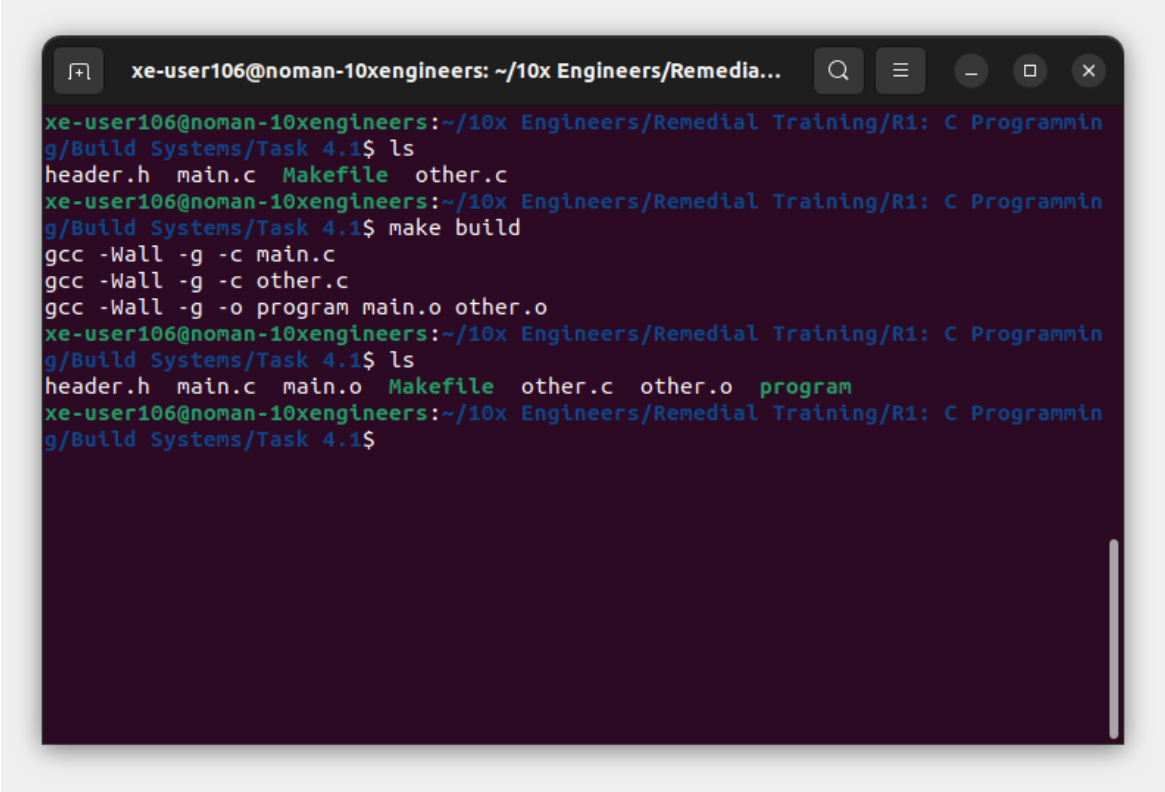
```
#include<stdio.h>
#include "header.h"

int main(){
      int x,y;
      int sum = 0;

      printf("Enter the value of x: \n");
      scanf("%d", &x);

      printf("Enter the value of y: \n");
      scanf("%d", &y);

      sum = add (&x, &y);

      printf("Sum is = %d\n", sum);

      return 0;
}
```

    c. **other.c:**

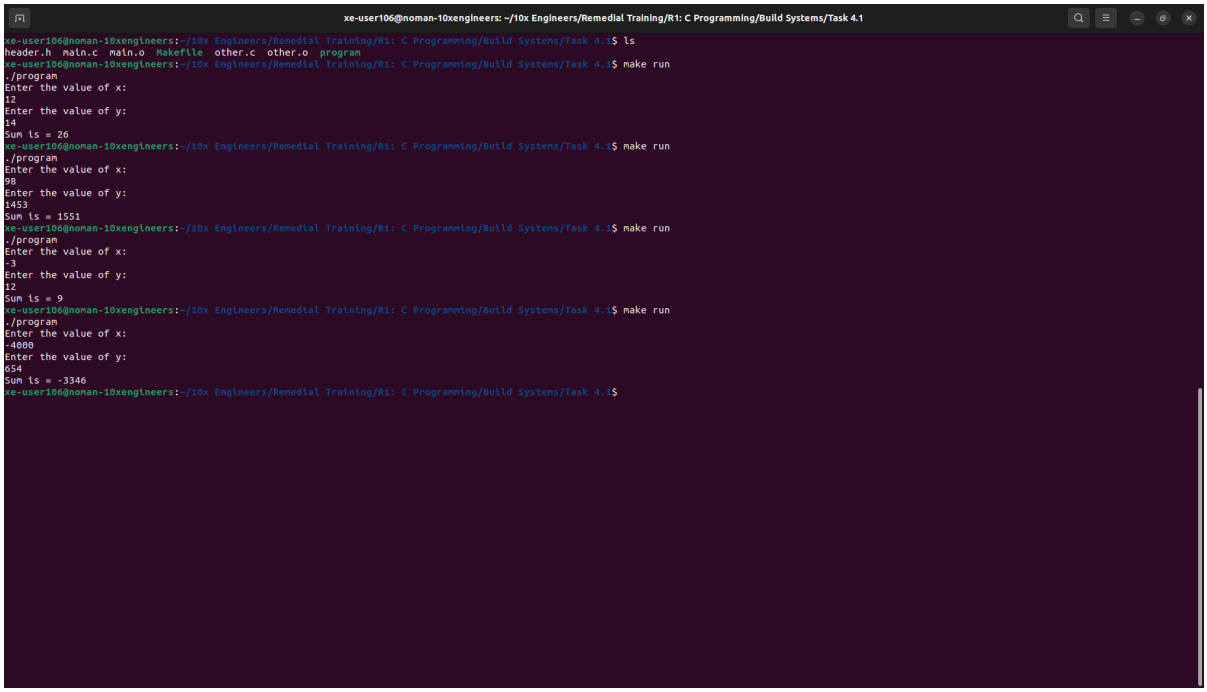
```
#include "header.h"

int add(int *x, int *y){
      int sum=0;
      sum = *x + *y;
      return sum;
}
```

2. **Key Visualization:**

`make build`



3. **Output:**


xe-user106@noman-10xengineers: ~/10x Engineers/Remedial Training/R1: C Programming/Build Systems/Task 4.1
xe-user106@noman-10xengineers:~/10x Engineers/Remedial Training/R1: C Programming/Build Systems/Task 4.1$ ls
header.h main.c main.o Makefile other.c other.o program
xe-user106@noman-10xengineers:~/10x Engineers/Remedial Training/R1: C Programming/Build Systems/Task 4.1$ make run
./program
Enter the value of x:
12
Enter the value of y:
14
Sum is = 26
xe-user106@noman-10xengineers:~/10x Engineers/Remedial Training/R1: C Programming/Build Systems/Task 4.1$ make run
./program
Enter the value of x:
98
Enter the value of y:
1453
Sum is = 1551
xe-user106@noman-10xengineers:~/10x Engineers/Remedial Training/R1: C Programming/Build Systems/Task 4.1$ make run
./program
Enter the value of x:
-3
Enter the value of y:
12
Sum is = 9
xe-user106@noman-10xengineers:~/10x Engineers/Remedial Training/R1: C Programming/Build Systems/Task 4.1$ make run
./program
Enter the value of x:
-4000
Enter the value of y:
654
Sum is = -3346
xe-user106@noman-10xengineers:~/10x Engineers/Remedial Training/R1: C Programming/Build Systems/Task 4.1$