

```
arif@arif:~/gcc/multifile$ ls
myadd.c mydiv.c mymath.h mymul.c mysub.c progl.c progl.o
arif@arif:~/gcc/multifile$ cat progl.c
#include <stdio.h>
#include <stdlib.h>
#include <mymath.h>
int main(int argc, char* argv[]){
    long x = atol(argv[1]);
    long y = atol(argv[2]);
    double ans1 = myadd(x,y);
    double ans2 = mysub(x,y);
    double ans3 = mymul(x,y);
    double ans4 = mydiv(x,y);
    printf("a + b = %7.2lf\n",ans1);
    printf("a - b = %7.2lf\n",ans2);
    printf("a * b = %7.2lf\n",ans3);
    printf("a/b = %7.2lf\n",ans4);
    return 0;
}
arif@arif:~/gcc/multifile$
```

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```
arif@arif:~/gcc/multifile$ cat mymath.h
double myadd(long, long);
double mysub(long, long);
double mymul(long, long);
double mydiv(long, long);
arif@arif:~/gcc/multifile$ cat myadd.c
double myadd(long a, long b){
    return a + b;
}
arif@arif:~/gcc/multifile$ cat mysub.c
double mysub(long a, long b){
    return a - b;
}
arif@arif:~/gcc/multifile$ cat mydiv.c
double mydiv(long a, long b){
    if (b != 0)
        return a / b;
    return 0;
}
arif@arif:~/gcc/multifile$
```

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9:30 pm
06/02/2021

```

arif@arif:~/gcc/multifile$ cat myadd.c
double myadd(long a, long b){
    return a + b;
}

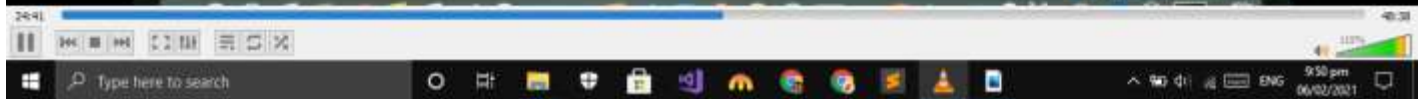
arif@arif:~/gcc/multifile$ cat mysub.c
double mysub(long a, long b){
    return a - b;
}

arif@arif:~/gcc/multifile$ cat mydiv.c
double mydiv(long a, long b){
    if (b != 0)
        return a / b;
    return 0;
}

arif@arif:~/gcc/multifile$ cat mymul.c
double mymul(long a, long b){
    return a * b;
}

arif@arif:~/gcc/multifile$ ls
myadd.c mydiv.c mymath.h mymul.c mysub.c progl.c progl.o
arif@arif:~/gcc/multifile$

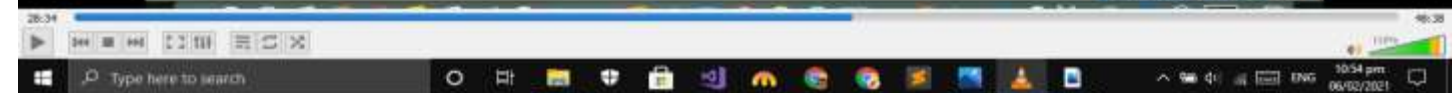
```



```

arif@arif:~/gcc/multifile$ ls
myadd.c mydiv.c mymath.h mymul.o mysub.o
myadd.o mydiv.o mymul.c mysub.c progl.c
arif@arif:~/gcc/multifile$ gcc -c *.c
progl.c:3:20: fatal error: mymath.h: No such file or directory
compilation terminated.
arif@arif:~/gcc/multifile$ gcc -c *.c I.
gcc: error: I.: No such file or directory
arif@arif:~/gcc/multifile$ gcc -c *.c -I.
arif@arif:~/gcc/multifile$ ls
myadd.c mydiv.c mymath.h mymul.o mysub.o progl.o
myadd.o mydiv.o mymul.c mysub.c progl.c
arif@arif:~/gcc/multifile$ gcc myadd.o mysub.o mymul.o mydiv.o progl.o
arif@arif:~/gcc/multifile$ ls
a.out myadd.o mydiv.o mymul.c mysub.c progl.c
myadd.c mydiv.c mymath.h mymul.o mysub.c progl.o
arif@arif:~/gcc/multifile$ rm a.out
arif@arif:~/gcc/multifile$ gcc *.o
arif@arif:~/gcc/multifile$ ls
a.out myadd.o mydiv.o mymul.c mysub.c progl.c
myadd.c mydiv.c mymath.h mymul.o mysub.c progl.o
arif@arif:~/gcc/multifile$ rm a.out

```



```
arif@arif:~/gcc/multifile$ gcc *.o -o kakamanna
arif@arif:~/gcc/multifile$ ls
kakamanna  myadd.o  mydiv.o  mymul.c  mysub.c  progl.c
myadd.c    mydiv.c  mymath.h mymul.o  mysub.o  progl.o
arif@arif:~/gcc/multifile$ kakamanna
kakamanna: command not found
arif@arif:~/gcc/multifile$ echo $PWD
/home/arif/gcc/multifile
arif@arif:~/gcc/multifile$ echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/ga
mes:/home/arif/gcc/exl/c
arif@arif:~/gcc/multifile$ export PATH=$PATH:.
arif@arif:~/gcc/multifile$ echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/ga
mes:/home/arif/gcc/exl/c:.
arif@arif:~/gcc/multifile$ kakamanna
Segmentation fault (core dumped)
arif@arif:~/gcc/multifile$ kakamanna 23 2
a + b = 25.00
a - b = 21.00
a * b = 46.00
a/b = 11.00
arif@arif:~/gcc/multifile$
```

30:21

40:38

