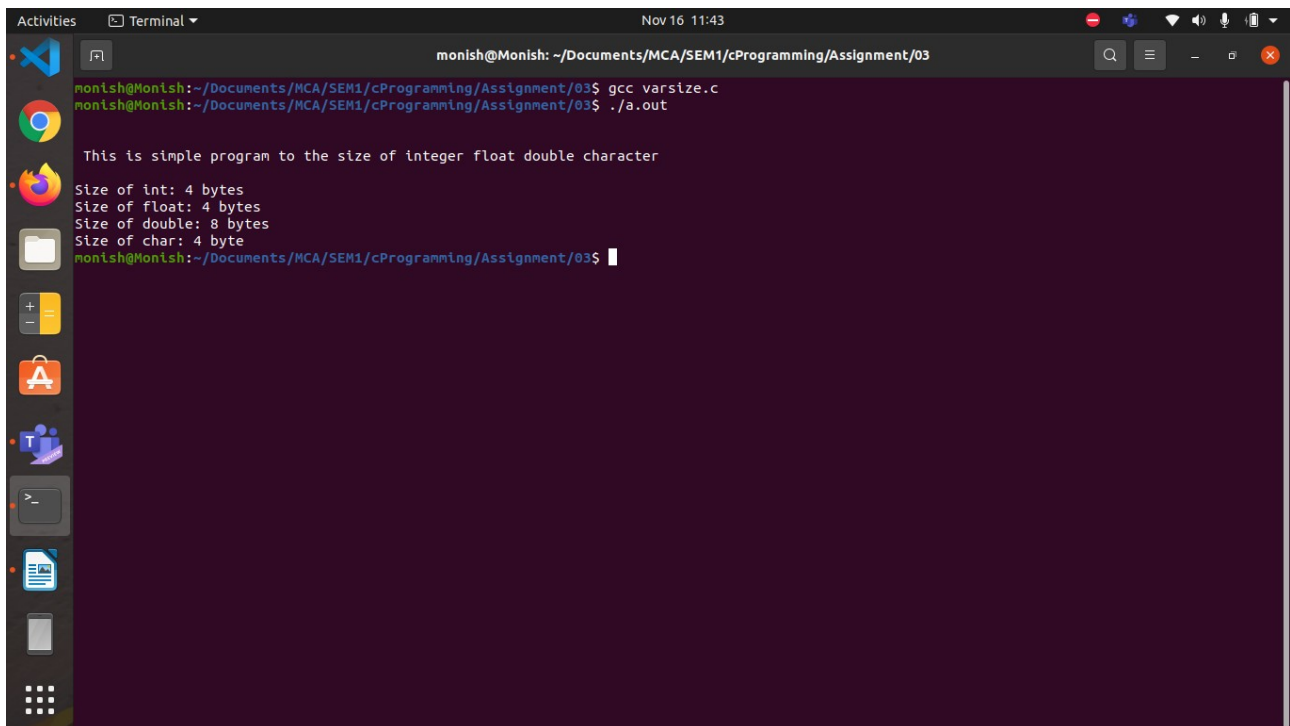


PROGRAM 1

```
#include <stdio.h>
int main()
{
printf("\n\n This is simple program to the size of integer float double character \n\n");
printf("Size of int: %lu bytes\n", sizeof(int));
//sizeof() function return long unsigned int that's why Format Specifiers is lu
printf("Size of float: %lu bytes\n", sizeof(float));
printf("Size of double: %lu bytes\n", sizeof(double));
printf("Size of char: %lu byte\n", sizeof(float));
return 0;
}
```

OUTPUT



```
monish@Monish: ~/Documents/MCA/SEM1/cProgramming/Assignment/03
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/03$ gcc varsize.c
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/03$ ./a.out

This is simple program to the size of integer float double character

Size of int: 4 bytes
Size of float: 4 bytes
Size of double: 8 bytes
Size of char: 4 byte
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/03$
```

PROGRAM 2

```
#include <stdio.h>
int main()
{
int num1, num2, num3;

printf("Enter the numbers Number 1, Number 2 and Number 3: ");
scanf("%d %d %d", &num1, &num2, &num3);

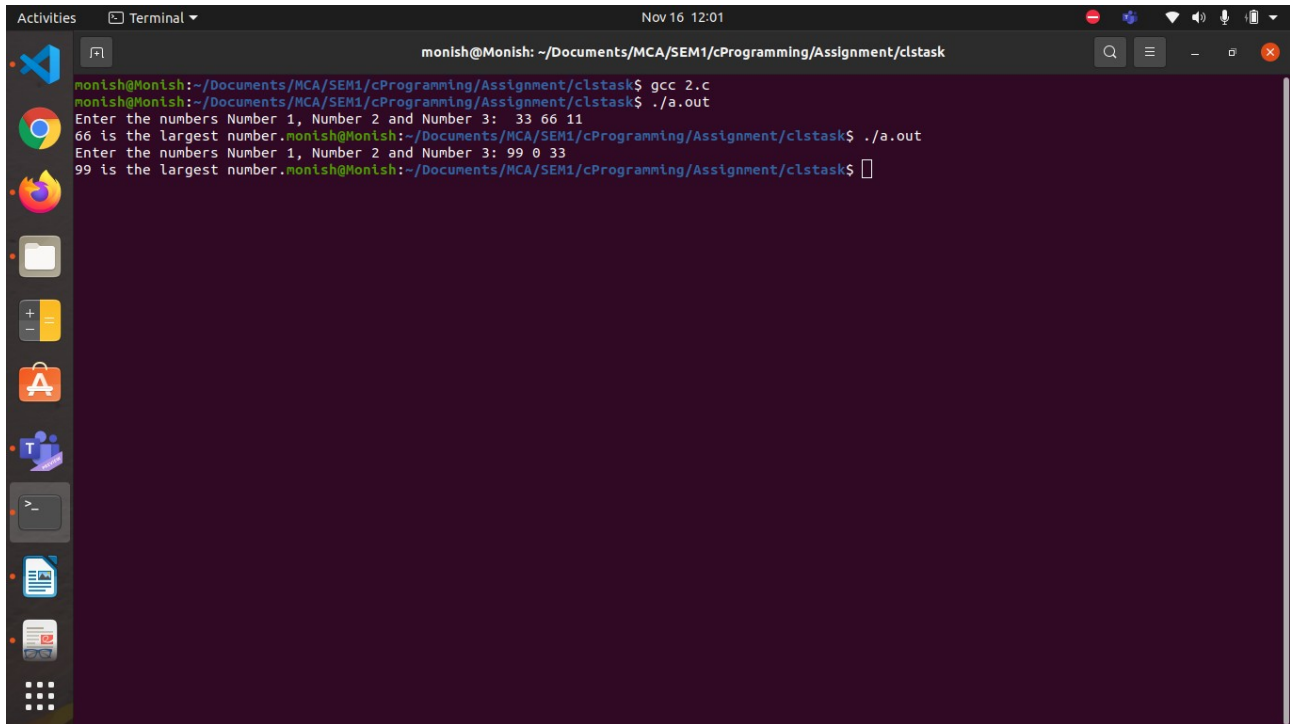
if (num1 >= num2 && num1 >= num3)
printf("%d is the largest number.", num1);
}
```

```

else if (num2 >= num1 && num2 >= num3)
printf("%d is the largest number.", num2);
else if (num3 >= num1 && num2 >= num2)
printf("%d is the largest number.\n\n", num3);
return 0;
}

```

OUTPUT 1



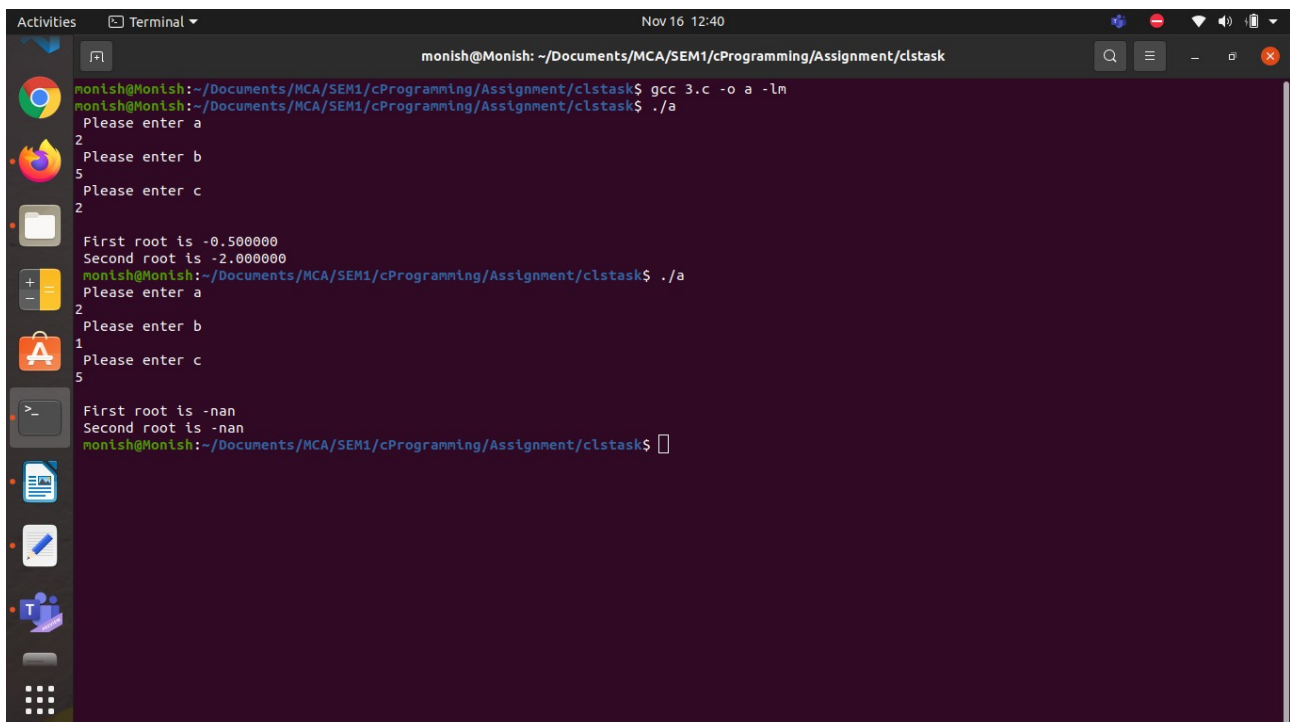
A terminal window titled "monish@Monish: ~/Documents/MCA/SEM1/cProgramming/Assignment/clstask" showing the compilation and execution of a C program. The program prompts the user to enter three numbers. In the first run, the inputs are 33, 66, and 11, and the output is "66 is the largest number." In the second run, the inputs are 99, 0, and 33, and the output is "99 is the largest number." The terminal background is dark purple with light blue text.

```

monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ gcc 2.c
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ ./a.out
Enter the numbers Number 1, Number 2 and Number 3: 33 66 11
66 is the largest number.monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ ./a.out
Enter the numbers Number 1, Number 2 and Number 3: 99 0 33
99 is the largest number.monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ 

```

OUTPUT 2



A terminal window titled "monish@Monish: ~/Documents/MCA/SEM1/cProgramming/Assignment/clstask" showing the compilation and execution of a C program. The program prompts the user to enter coefficients a, b, and c. In the first run, the inputs are 2, 5, and 2, resulting in roots -0.500000 and -2.000000. In the second run, the inputs are 2, 1, and 5, resulting in roots -nan and -nan. The terminal background is dark purple with light blue text.

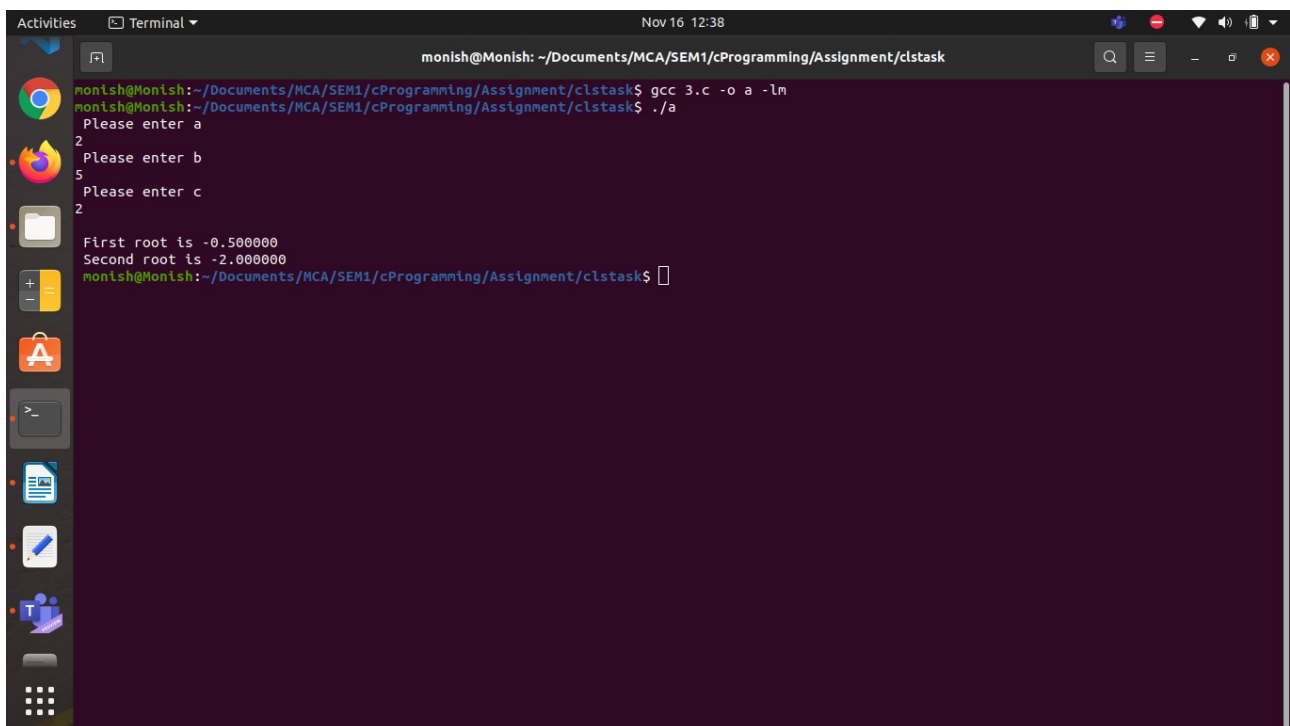
```

monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ gcc 3.c -o a -lm
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ ./a
Please enter a
2
Please enter b
5
Please enter c
2
First root is -0.500000
Second root is -2.000000
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ ./a
Please enter a
2
Please enter b
1
Please enter c
5
First root is -nan
Second root is -nan
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ 

```

PROGRAM 3

```
#include <stdio.h>
#include <math.h>
int main()
{
double a,b,c,root1,root2;
printf(" Please enter a \n");
scanf("%lf",&a);
printf(" Please enter b \n");
scanf("%lf",&b);
printf(" Please enter c \n");
scanf("%lf",&c);
root1 = (-b + sqrt(b*b-4.*a*c) ) / (2.*a);
root2 = (-b - sqrt(b*b-4.*a*c) ) / (2.*a);
printf("\n First root is %lf ",root1);
printf("\n Second root is %lf ",root2);
printf("\n ");
return 0;
}
```



The screenshot shows a terminal window titled "Terminal" with the date and time "Nov 16 12:38". The user is logged in as "monish" on a machine named "Monish". The current directory is "~/Documents/MCA/SEM1/cProgramming/Assignment/clstask". The terminal shows the following commands and output:

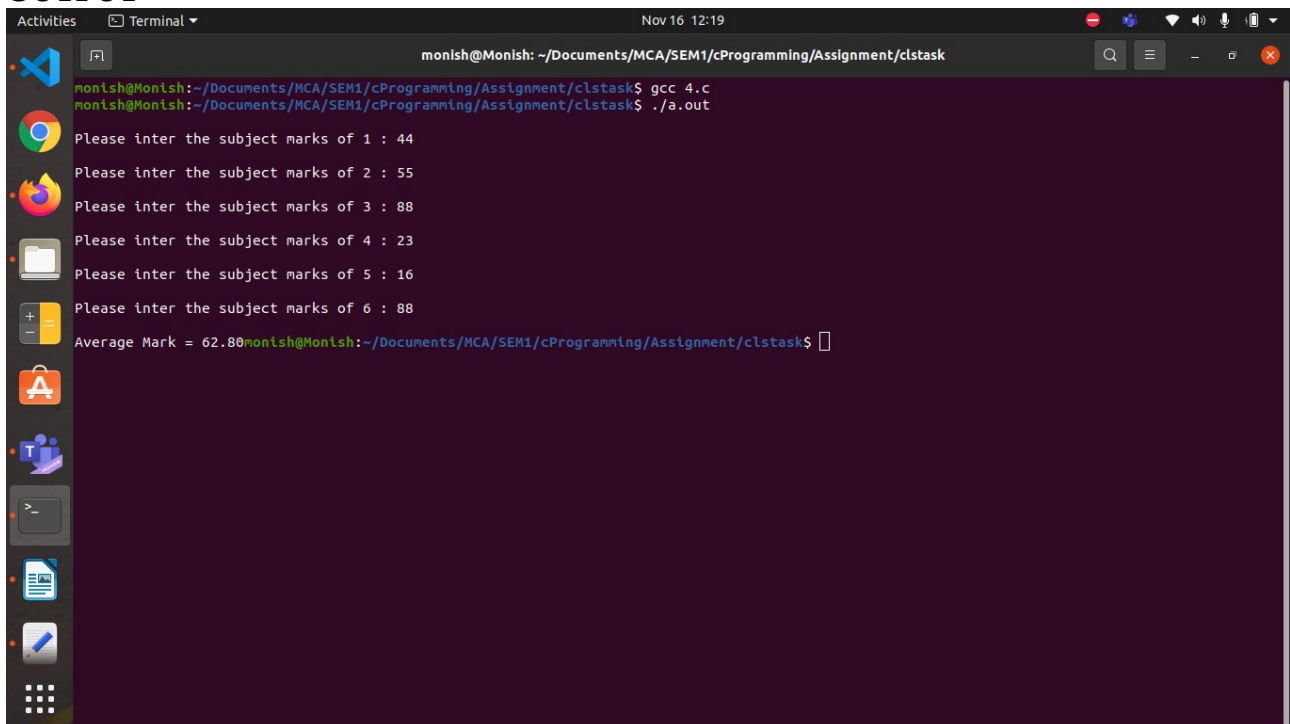
```
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ gcc 3.c -o a -lm
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ ./a
Please enter a
2
Please enter b
5
Please enter c
2
First root is -0.500000
Second root is -2.000000
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$
```

The terminal window has a sidebar on the left with various application icons, including a web browser, a file manager, and a terminal. The main area of the terminal is dark purple with white text.

PROGRAM 4

```
#include <stdio.h>
int main()
{
    int i;
    float mark, sum=0, avg;
    for(i=0; i<6; i++)
    {
        printf("\nPlease enter the subject marks of %d : ", i+1);
        scanf("%f", &mark);
        sum = sum+mark;
    }
    avg = sum/6;
    printf("\nAverage Mark = %0.2f", avg);
    return 0;
}
```

OUTPUT

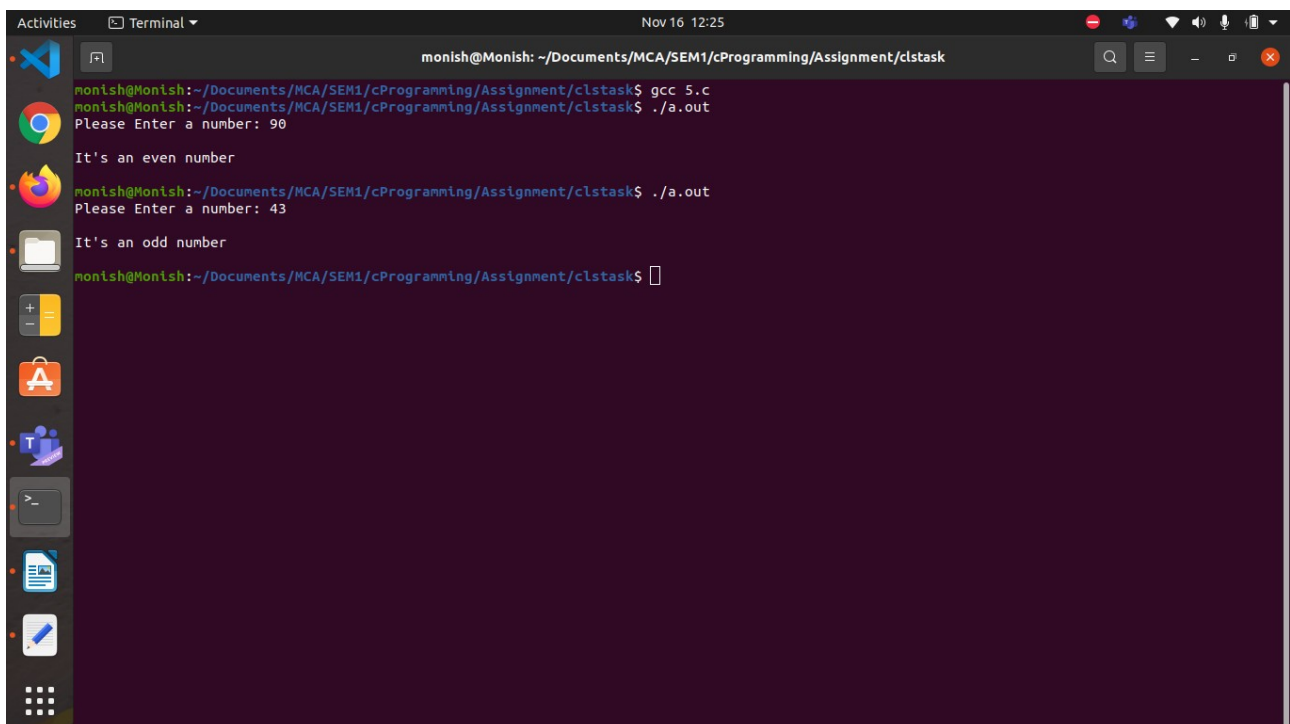


```
monish@Monish: ~/Documents/MCA/SEM1/cProgramming/Assignment/clstask
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ gcc 4.c
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ ./a.out
Please enter the subject marks of 1 : 44
Please enter the subject marks of 2 : 55
Please enter the subject marks of 3 : 88
Please enter the subject marks of 4 : 23
Please enter the subject marks of 5 : 16
Please enter the subject marks of 6 : 88
Average Mark = 62.80monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$
```

PROGRAM 5

```
#include<stdio.h>
int main()
{
int num;
printf("Please Enter a number: ");
scanf("%d", &num);
if(num%2 == 0)
printf("\nIt's an even number\n\n");
else
printf("\nIt's an odd number\n\n");
return 0;
}
```

OUTPUT



```
monish@Monish: ~/Documents/MCA/SEM1/cProgramming/Assignment/clstask
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ gcc 5.c
monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ ./a.out
Please Enter a number: 90

It's an even number

monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$ ./a.out
Please Enter a number: 43

It's an odd number

monish@Monish:~/Documents/MCA/SEM1/cProgramming/Assignment/clstask$
```