

Aim Programs to input data through Command line argument.

Software Required:- Turbo C/C++

Theory:- Command-line arguments are given after the name of the program in Command line-shell of operating systems.

To pass command line arguments, we typically define `main()` with two arguments: first argument is the number of command line arguments & second is list of command-line arguments.

Syntax:-

```
# int main (int argc, char *argv[])
```

```
{
```

```
/* ..... */
```

```
}
```

In the above syntax;

- Arg (Argument Count) is int and stores number of command line argument passed by the user including the name of the program. So if we pass a value to a program, value of `argc` would be 2 (One for argument & one for program name).
- The value of `argc` should be non negative.
- argv (argument vector) is array of character pointers listening all the argument.
- If `argc` is greater than zero, the array elements from `argv[0]` to

Output :-

After executing the program, go to DOS shell from FILE option.

```
C:\Turbo C31 Bin>
C:\Turbo C31 Bin>ed..
C:\Turbo C31>ed source
C:\Turbo C31 Source> program.exe
please provide the arguments.
C:\Turbo C31 Source> program is one
The command line argument is one
C:\Turbo C31 Source> program.exe
one direction.
more than 1 argument
```

- to `argv[argc-1]` will contain pointer to string.
- `argv[0]` is the name of program, After that till `argv[argc-1]` every element is command-line argument.

Code

```
1. #include <stdio.h>
#include <stdlib.h>
#include <conio.h>

void main (int argc, char* argv[])
{
    clrscr();
    if (argc == 2)
    {
        printf("The command line argument is\n%.s", argv[1]);
    }
    else if (argc > 2)
    {
        printf("More than 1 arguments");
    }
    else
    {
        printf("Please provide the arguments");
    }
    getch();
}
```

Output

After executing the program, go to DOS Shell from file option.

```
C:\Turbo C3\Bin>
```

```
C:\Turbo C3\Bin>cd.
```

```
C:\Turbo C3\>cd source
```

```
C:\Turbo C3\Source>program.exe
```

PLEASE, PROVIDE THE ARGUMENTS

```
C:\Turbo C3\Source>program.exe 22
```

The sum of all command line program arguments is 22

```
C:\Turbo C3\Source>program.exe 22  
21 24
```

The sum of all command line program arguments is 67

Code

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

```
#include <conio.h>
```

```
#include <stdlib.h>
```

```
void main (int argc, char *argv [])
```

```
{
```

```
clrscr();
```

```
int i, n;
```

```
int sum = 0;
```

```
if (argc = 1)
```

```
{
```

```
printf("PLEASE PROVIDE THE COMMAND  
LINE ARGUMENTS");
```

```
}
```

```
for (i=1; i<argc; i++)
```

```
{
```

```
n = atoi(argv[i]);
```

```
sum += n;
```

```
}
```

```
printf("The sum of all command line  
arguments is %d\n", sum);
```

```
getch();
```

```
}
```