

# Command Line Arguments

CSE 101

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# C/C++ Command Line Arguments

- When executing a program in either C or C++ there is a way to pass command line arguments.
- Passed as character arrays.
- Each parameter separated by a space
- Comes into the program as two arguments
  - argc – Number of parameters
  - argv – Parameter list

# Command Line Arguments

```
#include <stdio.h>

int main(int c, char *v[])
{
    for (int i=0; i< c; i++)
        printf("This is Argument number # %d -> %s
               \n", v[i]);
    return 0;
}
```

# Sample Output

dhakarPola>hello Each word should be a unique argument

- This is Argument number #0 -->hello
- This is Argument number #1 -->Each
- This is Argument number #2 -->word
- This is Argument number #3 -->should
- This is Argument number #4 -->be
- This is Argument number #5 -->a
- This is Argument number #6 -->unique
- This is Argument number #7 -->argument

# Command Line Arguments

Conventional rules:

- Arguments are always passed to main( ).
- There must be two
  - first is an integer
  - second char pointer to an array
- First argument (argv[0]) will always be the name of the calling program.
- argc will always be at least 1
- The first argument is always argv[0]
- The last argument is always argv[argc-1]
- argv[argc] will always be a null pointer
- Arguments are always passed as character strings. Numbers must be converted from characters to integers, floats, doubles, etc.