|  |
| --- |
| #include<iostream> |
|  | #include<string.h> |
|  | #include<stdlib.h> |
|  | using namespace std; |
|  | //Function to check the datatype of Arguments. |
|  | void TypeCheck(char \*argv) |
|  | { |
|  |  |
|  | //atoi function for converting string to int |
|  | int iA=atoi(argv); |
|  | if(iA==0) |
|  | { |
|  | if(strlen(argv)==1) |
|  | { |
|  | cout<<endl<<"\t char"; |
|  | cout<<"\t\t"<<argv<<"\t\t"<<strlen(argv); |
|  | } |
|  | else |
|  | { |
|  | cout<<endl<<"\t string"; |
|  | cout<<"\t\t"<< argv<<"\t\t"<<sizeof(argv); |
|  | } |
|  | } |
|  | //else case for displaying int and float values |
|  | else |
|  | { |
|  | float fB=atof(argv); |
|  | if(iA==fB) |
|  | { |
|  | cout<<endl<<"\t int"<<"\t\t"<<iA<<"\t\t"<<sizeof(iA); |
|  | } |
|  | else |
|  | cout<<endl<<"\t float"<<"\t\t"<<fB<<"\t\t"<<sizeof(fB)<<endl; |
|  | } |
|  | } |
|  | int main(int argc,char \*argv[]) |
|  | { |
|  | if((argc==2)&&(strcmp(argv[1],"-h")==0)) |
|  | { |
|  | //if loop for comparing the input string with "-h" and displaying the usage |
|  | //if(strcmp(argv[1],"-h")==0) |
|  | { |
|  | cout<<" Usage Of The File "<<endl; |
|  | cout<<argv[0]<<" datatype1 datatype2 .... datatypeN "<<endl; |
|  | } |
|  | } |
|  | else if(argc==1) |
|  | { |
|  | cout<<"In parameters give -h to display usage "<<endl;sett |
|  | } |
|  |  |
|  | else |
|  | { |
|  | cout<<"\t type"<<"\t"<<"\t Value"<<"\t"<<"\t Size"<<endl; |
|  | for(int i=1;i<argc;i++) |
|  | { |
|  |  |
|  | TypeCheck(argv[i]); |
|  | } |
|  | } |
|  |  |
|  | } |