**CPP\_Assignment\_6b**

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| --- | --- | --- |
| Write an application in C++ to read a line of text as a single string as command line argument, parse, extract, store and display the words following the specified steps: | | |
| Requirement Tag | Requirement Description | Comments |
| VSTR/01 | Read a line of text as a single string from command line |  |
| VSTR/02 | Create a class named “Wordset” with members as below vector <string> vlist;  int addmember(string s) - add given string s to vlist int deletemember(string s) – search and delete the given string s from vlist void displaylist() – iterate the vlist and display all its contents |  |
| VSTR/03 | Parse the command line arguments, extract words and store them in vlist |  |
| VSTR/04 | Prompt the user for a word to search and delete, then call deletemember if found |  |
| VSTR/05 | Display the contents of vector. |  |
| VSTR/06 | Empty the vlist and display the size of vlist |  |
| VSTR/07 | For every unque word stored in vector, get its frequency and display. | Hint: Use a map with key as string and frequency as value |

VSTR/01 Read a line of text as a single string from command line

Ans:

#include<iostream>

#include<vector>

#include<string>

using namespace std;

int main(int argc,char \*argv[])

{

int i;

for(i=0;i<argc;i++)

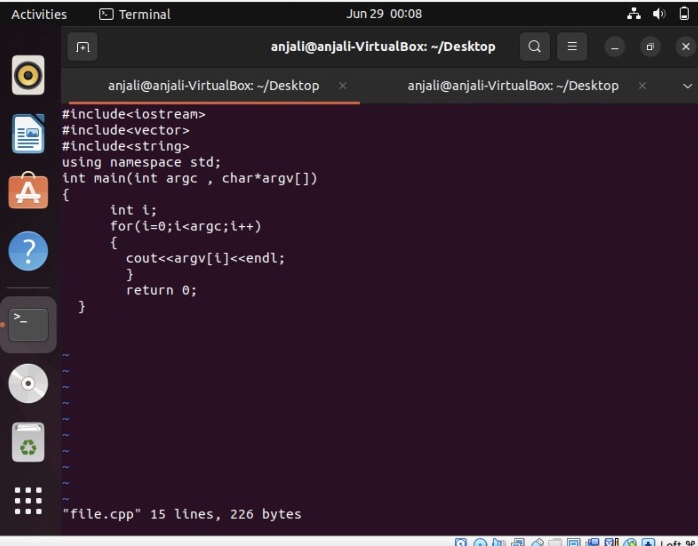
{

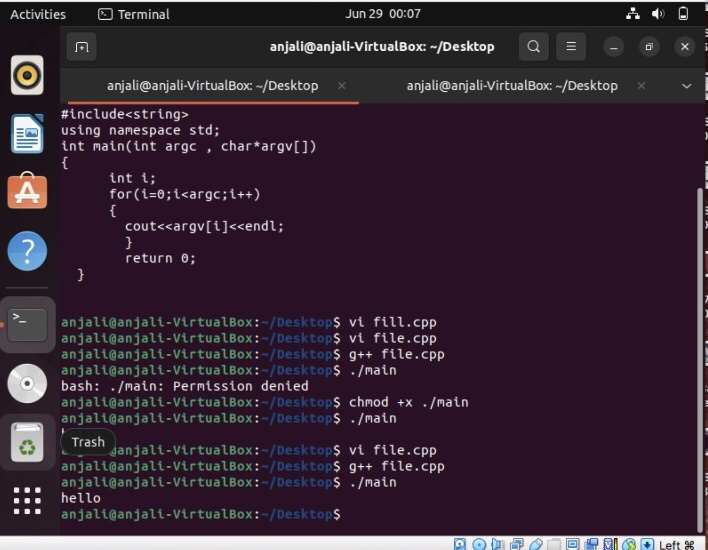
cout<<argv[i]<<endl;

}

return 0;

}





VSTR/02 Create a class named “Wordset” with members as below  
vector <string> vlist;  
  
int addmember(string s) - add given string s to vlist  
int deletemember(string s) – search and delete the given string s from vlist  
void displaylist() – iterate the vlist and display all its contents

Ans:

#include<iostream>

#include<vector>

#include<string>

using namespace std;

class Wordset{

private:

string s1="addmember";

string s2="deletemember";

public:

void add\_delete()

{

vector<string>vlist={"Read the file", "As single", "Command line"};

vlist.push\_back(s1);

vlist.push\_back(s2);

for(string s:vlist)

cout<<s<<" "<<endl;

vlist.pop\_back();

for(string s:vlist)

cout<<s<<" "<<endl;

vector<string>::iterator it;

for(it=vlist.begin();it<vlist.end();++it)

cout<<\*it<<" "<<endl;

}

};

int main(int argc,char \*argv[])

{

int i;

for(i=0;i<argc;i++)

{

cout<<argv[i]<<endl;

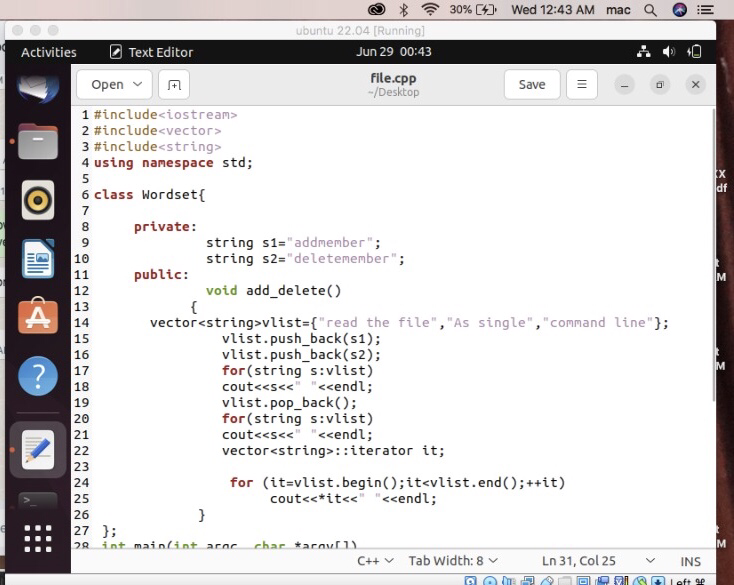
}

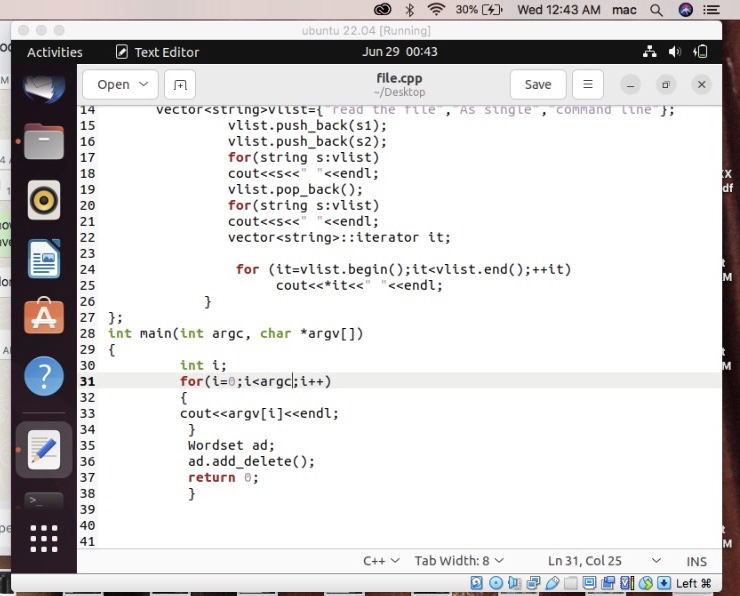
Wordset ad;

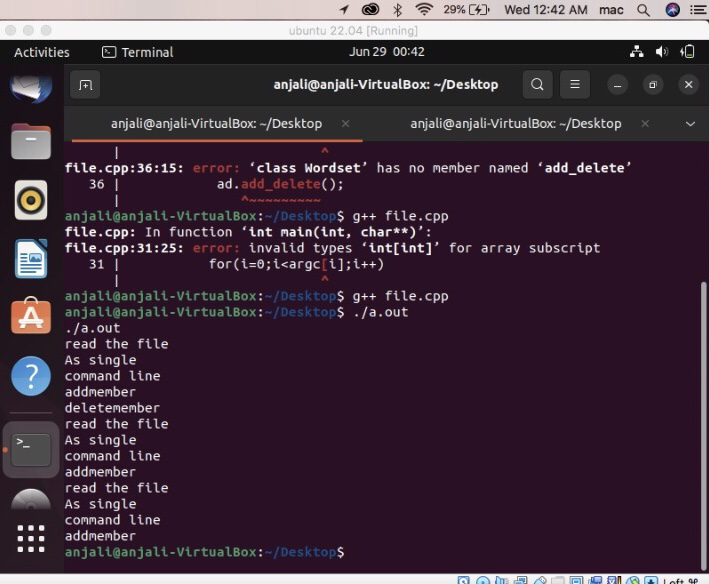
ad.add\_delete();

return 0;

}







VSTR/03 Parse the command line arguments, extract words and store them in vlist

Ans: