**Q 1.) 1. Write C Program to implement the following UNIX commands**

**(A) grep**

**(B) ls**

**Solution - A**

#include<stdio.h>

#include<string.h>

int main()

{

char fn[10],pat[10],temp[200];

FILE \*fp;

printf("Enter file name\n");

scanf("%s",fn);

printf("Enter pattern to be searched\n");

scanf("%s",pat);

fp=fopen(fn,"r");

while(!feof(fp)){

fgets(temp,1000,fp);

if(strstr(temp,pat))

printf("%s",temp);

}

fclose(fp);

}

**Output:**



**Solution - B**

#include<stdio.h>

#include<string.h>

#include<stdlib.h>

#include<dirent.h>

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

{

struct dirent \*\*namelist;

int n;

if(argc < 1)

{

exit(EXIT\_FAILURE);

}

else if (argc == 1)

{

n=scandir(".",&namelist,NULL,alphasort);

}

else

{

n = scandir(argv[1], &namelist, NULL, alphasort);

}

if(n < 0)

{

perror("scandir");

exit(EXIT\_FAILURE);

}

else

{

while (n--)

{

printf("%s\n",namelist[n]->d\_name);

free(namelist[n]);

}

free(namelist);

}

exit(EXIT\_SUCCESS);

}

**Output:**

