# Program:

#include <stdio.h>

#include <string.h>

#include <iostream>

#include <sys/types.h>

#include <sys/stat.h>

#include <unistd.h>

#include <fcntl.h>

using namespace std;

int choice, a=1;

unsigned int fd, fdn;

char path[100];

char buffer1[10]="";

void readr()

{

char buffer[10]="";

cout<<"Enter Patient ID: ";

cin>>path;

fd=open(path,O\_RDONLY);

if (fd != 4294967295)

{

int size=lseek(fd,0,2);

lseek(fd,0,0);

read(fd, buffer, size);

cout<<"\n Patient Details:\n\n---------------------------------------------------------------\n\n";

cout<<"ID: "<<path<<"Name: \n"<<buffer;

cout<<"\n\n---------------------------------------------------------------\n\n";

}

else

cout<<"\n\n --------Patient Not Registered---------\n";

close(fd);

}

void writew()

{

char buffera[20]="";

char bufferb[20]="";

int a, b, c, d;

cout<<"Enter Patient ID: ";

cin>>path;

a=fd=open(path, O\_WRONLY|O\_CREAT, 00777);

b=fdn=open(path, O\_RDONLY);

cout<<"\nEnter Patient Name\n";

cin>>buffera;

c=write(fd, buffera, strlen(buffera));

close(fd);

d=read(fdn, bufferb, 20);

cout<<"a: "<<a<<"\nb: "<<b<<"\nc: "<<c<<"\nd: "<<d;

cout<<"\n Sucessfully Registered\n\n---------------------------------------------------------------\n\n";

cout<<"ID: "<<path<<"\nName: "<<bufferb;

cout<<"\n\n---------------------------------------------------------------\n\n";

}

void linkl()

{

char newpath[100];

cout<<"Enter Patient ID: ";

cin>>path;

cout<<"Enter Attachment File Name: ";

cin>>newpath;

link(path, newpath);

}

int main()

{

for(int i=0;i<100;i++)

cout<<"\n";

cout<<"File Opertaions Using Systemcalls - UR12CS135";

while(a==1)

{

cout<<"\n\n1.Display Existing Patient Details\n2.Register a new Patient\n3.Add a new Document linked to a Patient\n4.Exit";

cout<<"\nEnter Your Choice: ";

cin>>choice;

switch(choice)

{

case 1:

{

readr();

break;

}

case 2:

{

writew();

break;

}

case 3:

{

linkl();

break;

}

case 4:

{

a=0;

break;

}

default:

{

cout<<"\nInvalid Option! Try Again...\n";

break;

}

}

}

return 0;

}

# Output:

