Lab 1: Installing the Fedora OS on a Virtual Machine
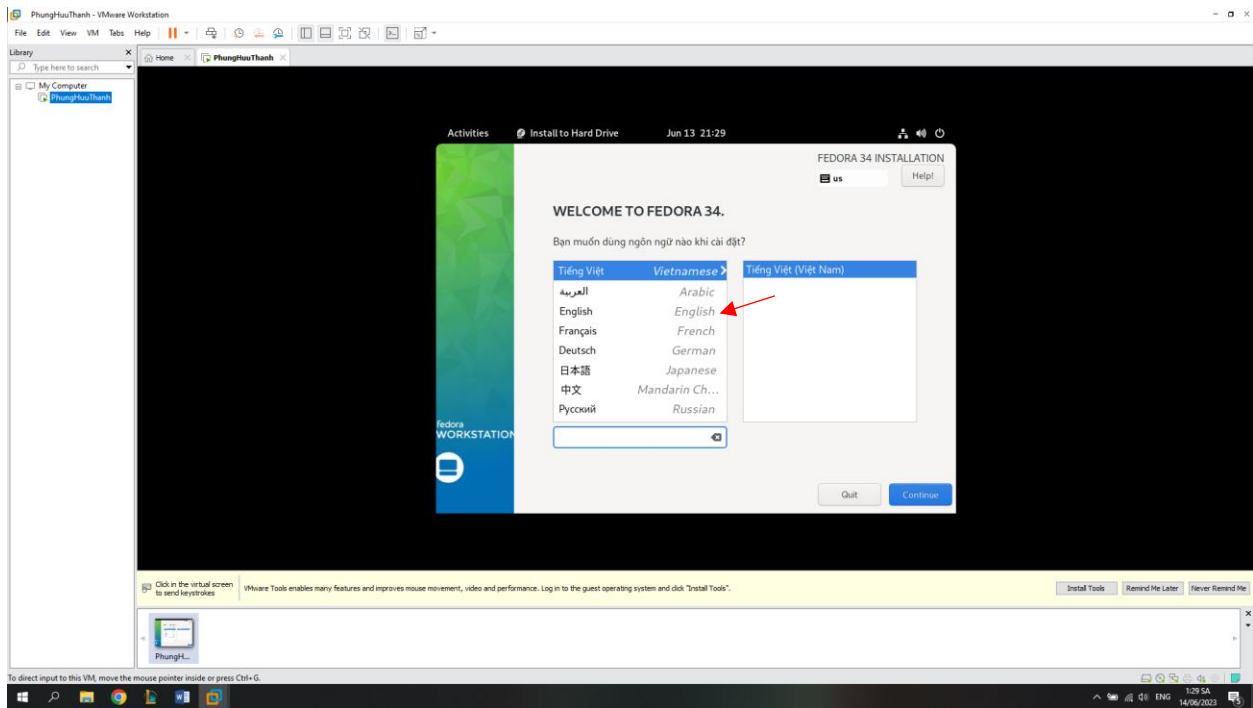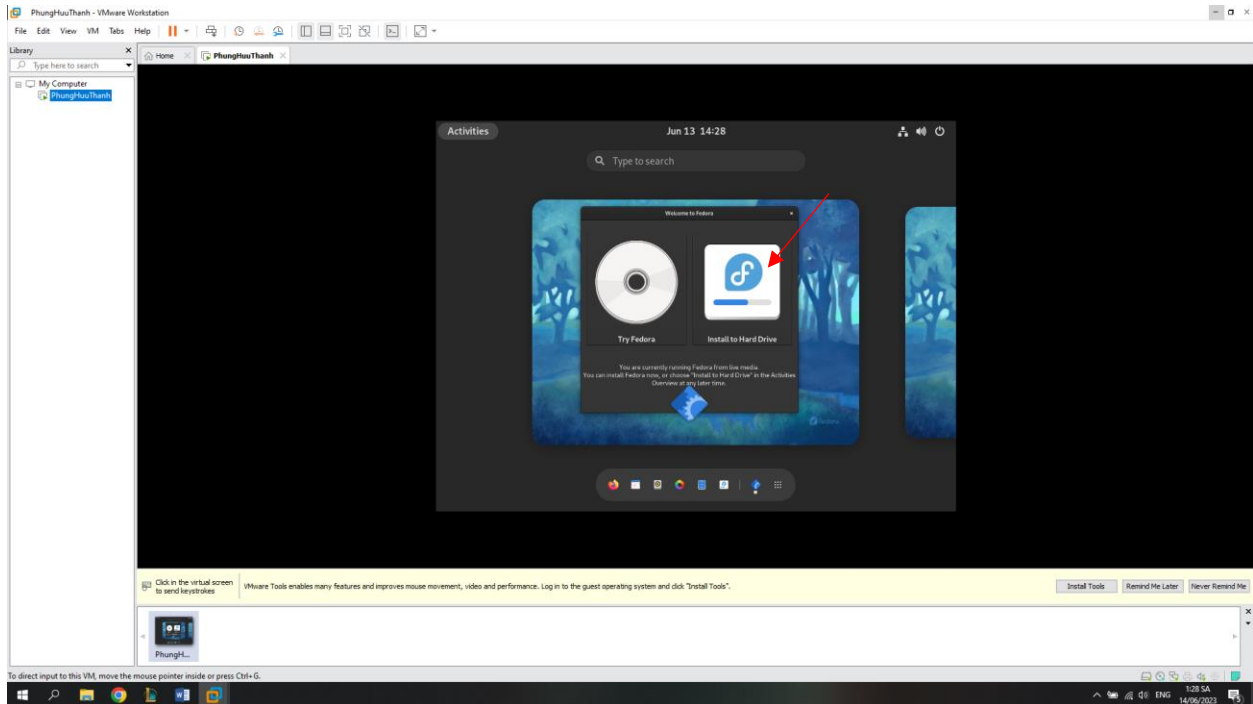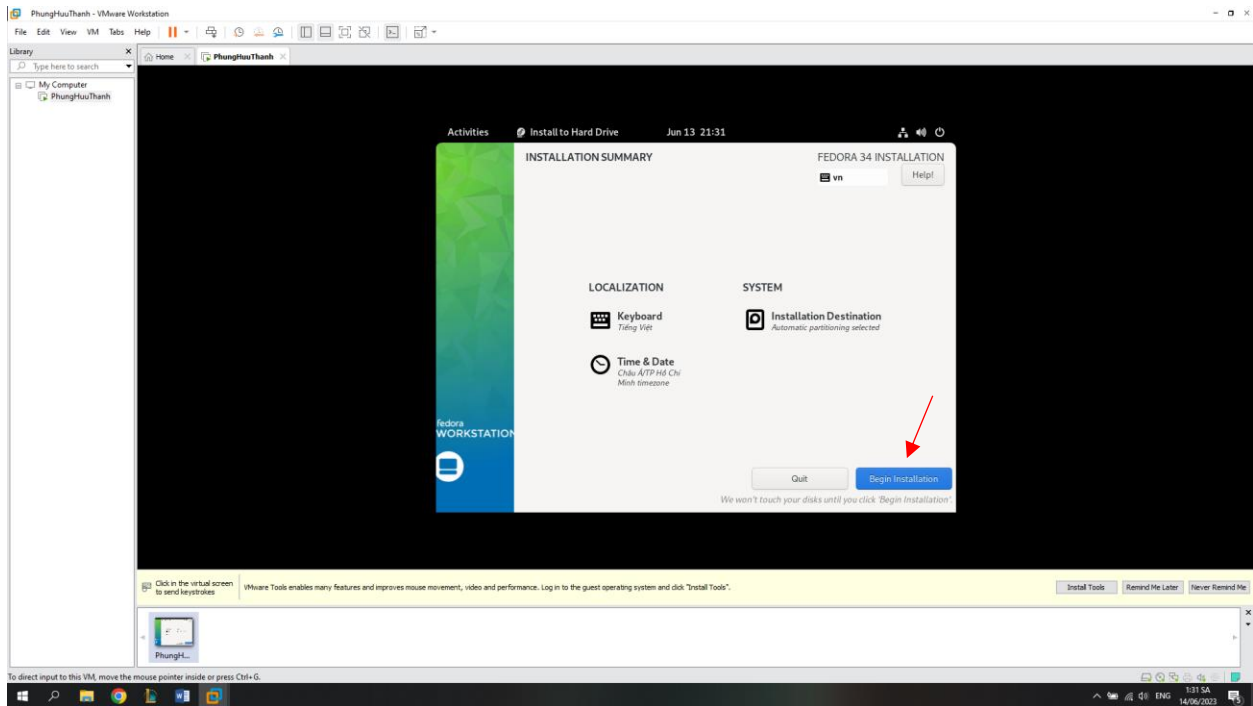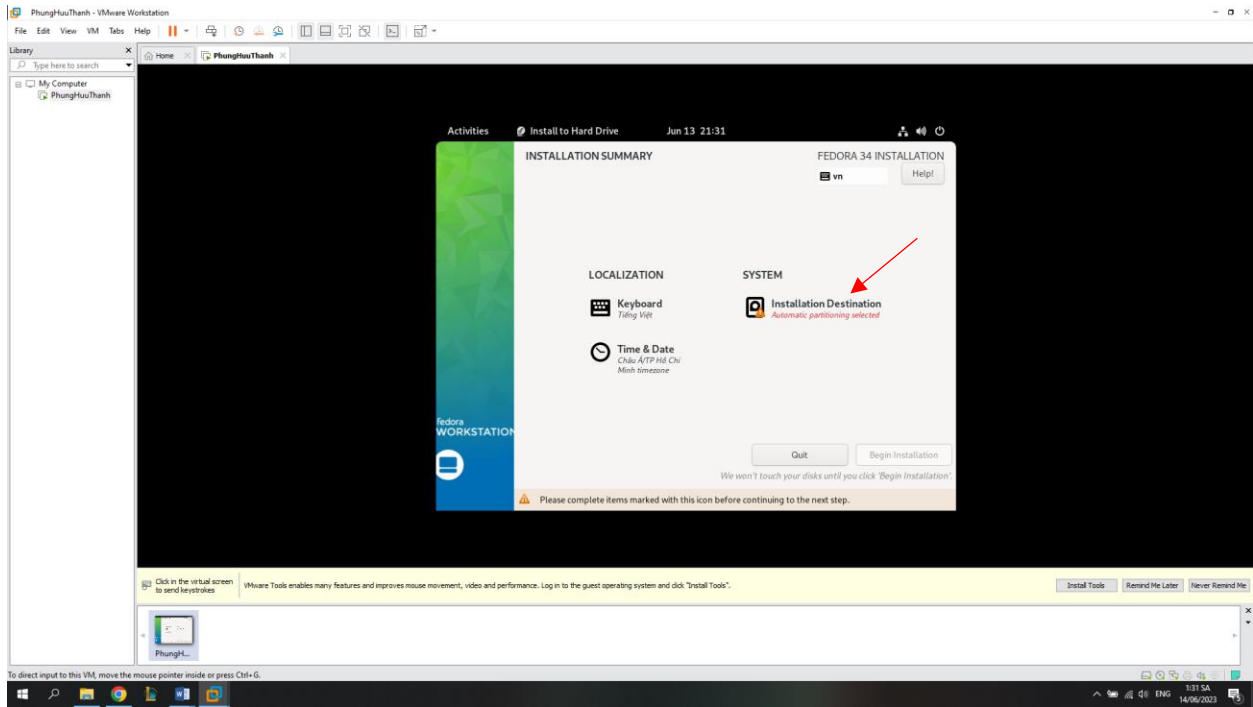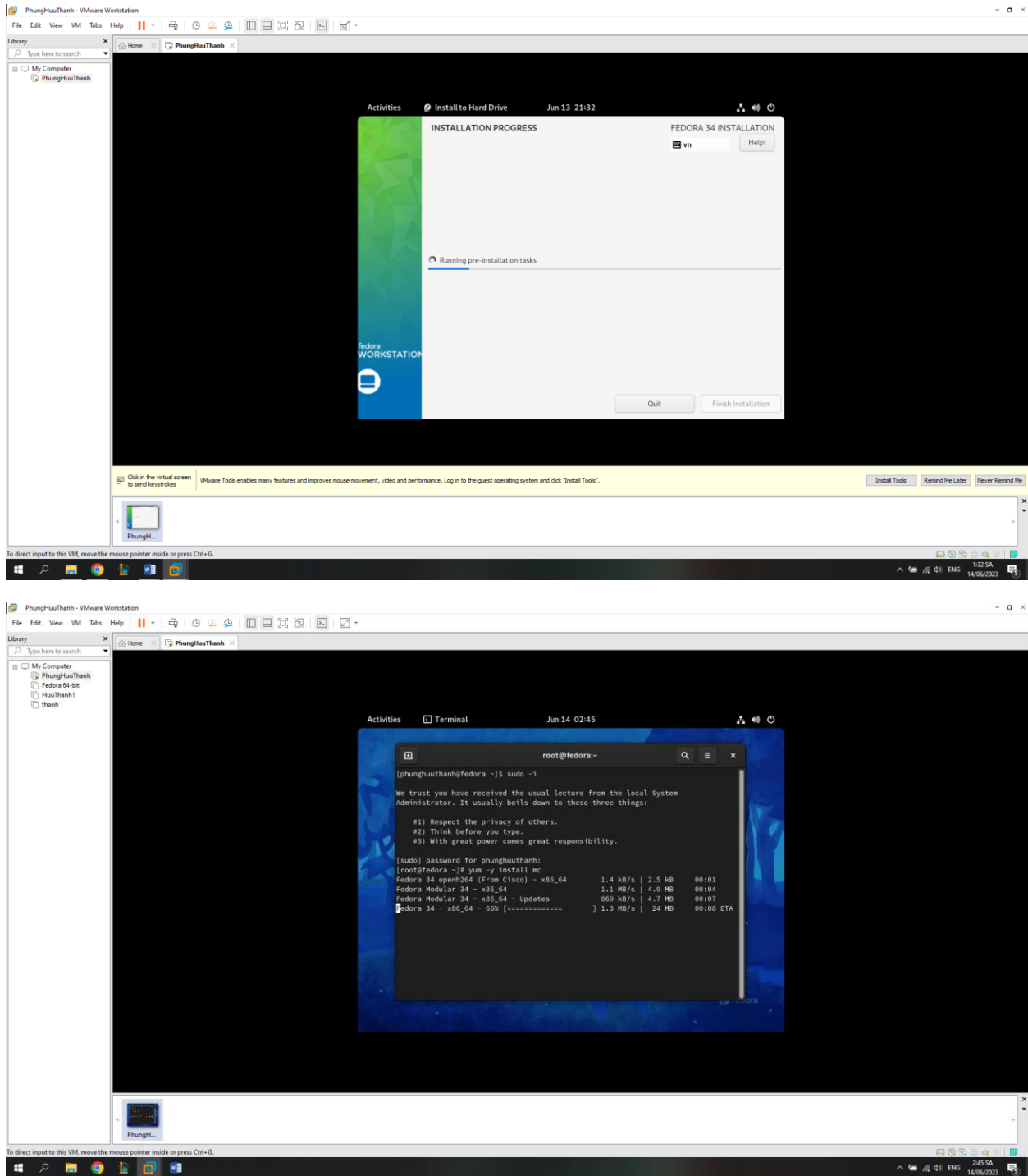
Use sudo -i with terminal to access the user mod then use command "yum -y install mc" to download midnight commander.
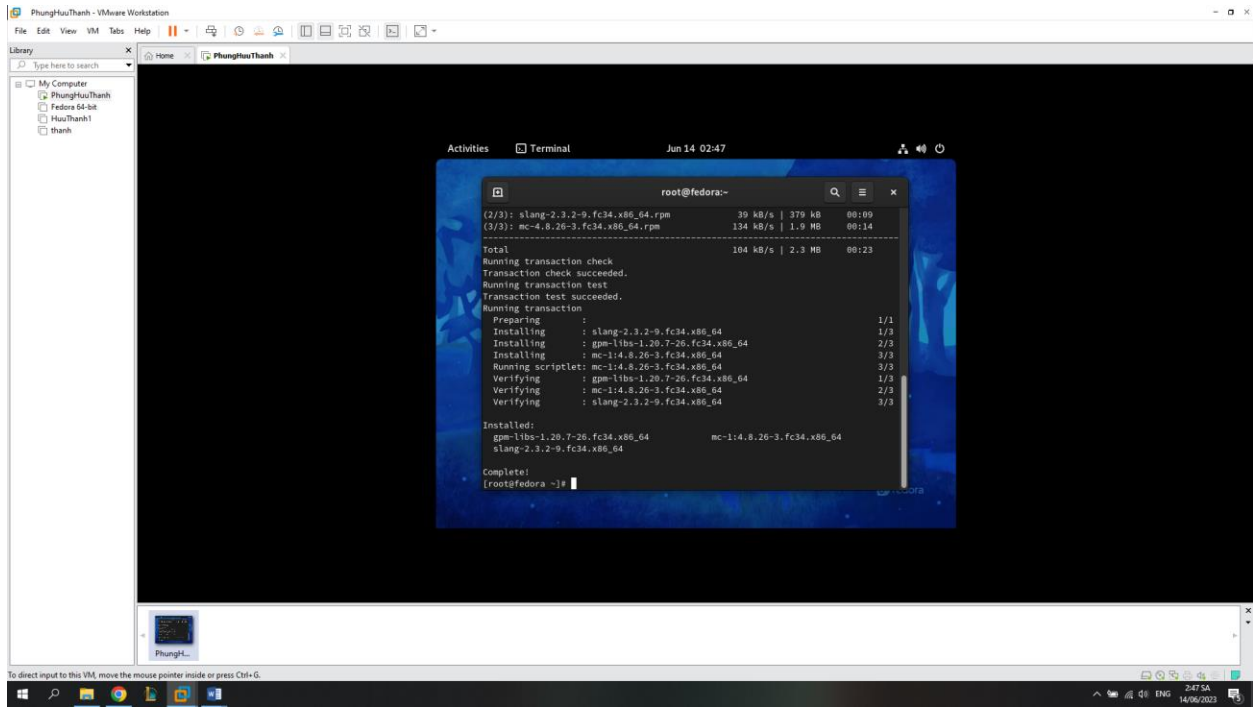
Screen of midnight commander
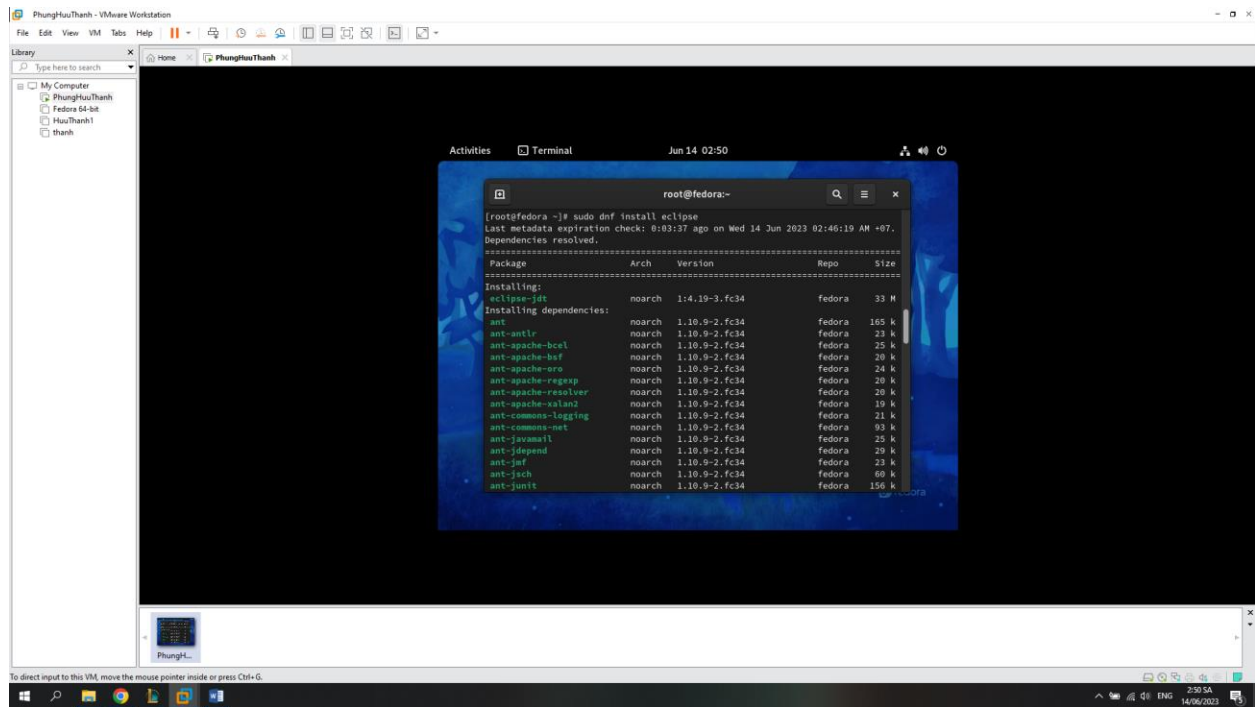
Use command "sudo dnf install eclipse" to download eclipse.

Activities   Eclipse   Jun 14 03:23

workspace - Exercise/main.cpp - Eclipse Platform

File Edit Source Refactor Navigate Search Project Run Window Help

Run   Excercise

Projec   box.cpp   box.h   main.cpp   rec.h   rec.cpp
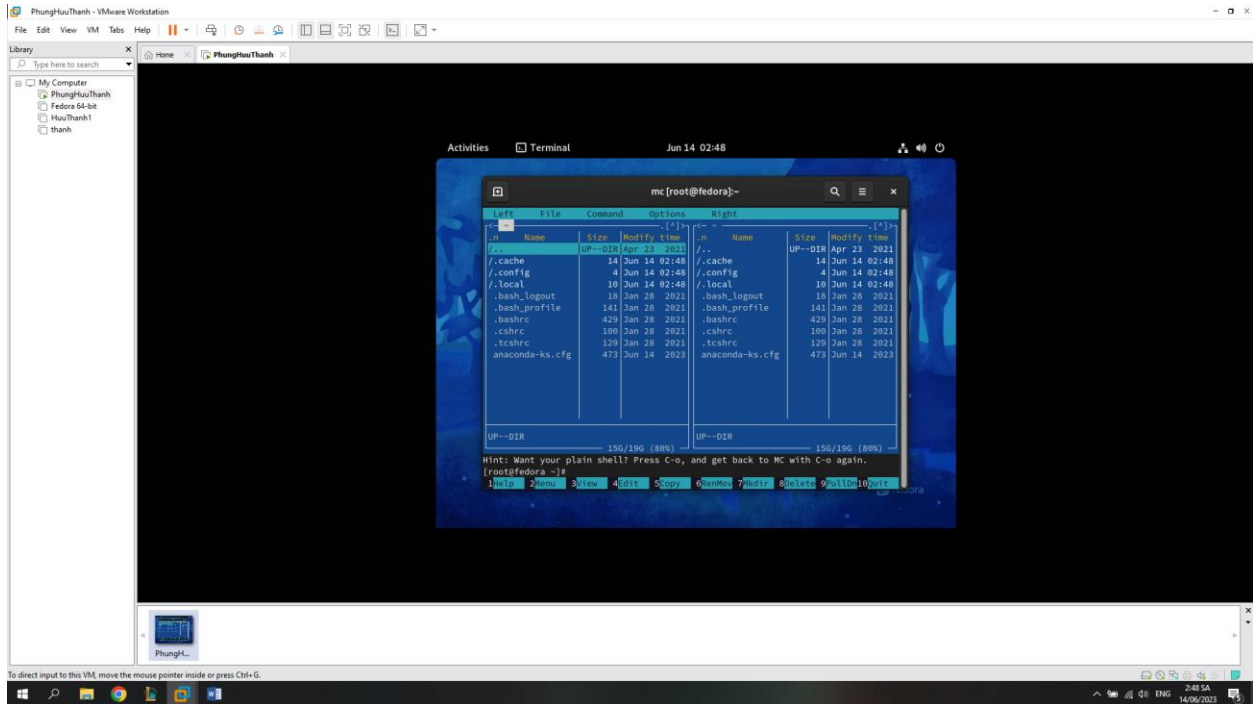
Excercise
  Binaries
  Includes
  Debug
  box.cpp
  box.h
  main.cpp
  rec.cpp
  rec.h
PhungHuuThanh

```cpp
*/
#include <iostream>
#include "rec.h"
#include "box.h"
using namespace std;
int main()
{
    rec r(5,3);
    box b(5,3,3);
    cout<<"Rectangle's area:"<<r.area()<<"\n";
    cout<<"Box's volumne:"<<b.volumne()<<"\n";
    return 0;
}
```

Writable   Smart Insert   11

Activities   Eclipse   Jun 14 03:24

workspace - Excercise/box.h - Eclipse Platform

File Edit Source Refactor Navigate Search Project Run Window Help

Run   Excercise

Projec   box.cpp   box.h   main.cpp   rec.h   rec.cpp

Excercise
  Binaries
  Includes
  Debug
  box.cpp
  box.h
  main.cpp
  rec.cpp
  rec.h
PhungHuuThanh

```cpp
#ifndef BOX_H_
#define BOX_H_
#include "rec.h"
class box: public rec
{
    protected:
        double height;
    public:
        box(double l,double w,double h);
        double volumne();
};


#endif /* BOX_H_ */
```

Writable   Smart Insert   16

Screenshot 1 — box.cpp:

```cpp
 * Created on: Jun 14, 2023
 *      Author: phunghuuthanh
 */
#include "box.h"
box::box(double l,double w,double h):rec(l,w)
{
    height=h>0? h:0;
}
double box::volumne()
{
    return lenght*width*height;
}
```


Screenshot 2 — rec.h:

```cpp
 * Created on: Jun 14, 2023
 *      Author: phunghuuthanh
 */

#ifndef REC_H_
#define REC_H_
class rec
{
    protected:
        double lenght, width;
    public:
        rec(double l,double w);
        double area();
};
```

Screenshot 1 — rec.cpp source:

```
 * Created on: Jun 14, 2023
 *     Author: phunghuuthanh
 */
#include "rec.h"
rec::rec(double l,double w)
{
    lenght=l>0? l:0;
    width=w>0? w:0;
}
double rec::area()
{
    return lenght*width;
}
```

Writable   Smart Insert   8

Screenshot 2 — Console output:

```
<terminated> (exit value: 0) Excercise [C/C++ Application] /home/phunghuuthanh/workspac
Rectangle's area:15
Box's volumne:45
```