

Programming Environment

Outline

① Our Programming Environment

② Working on a Project

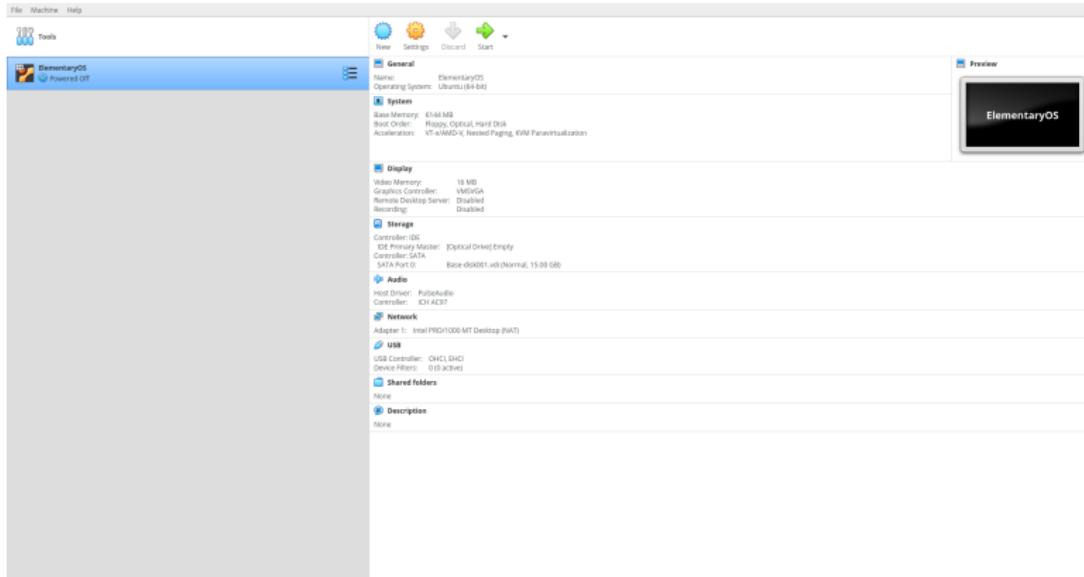
Our Programming Environment

Our Programming Environment

VirtualBox running a linux-based virtual machine (Elementary OS):

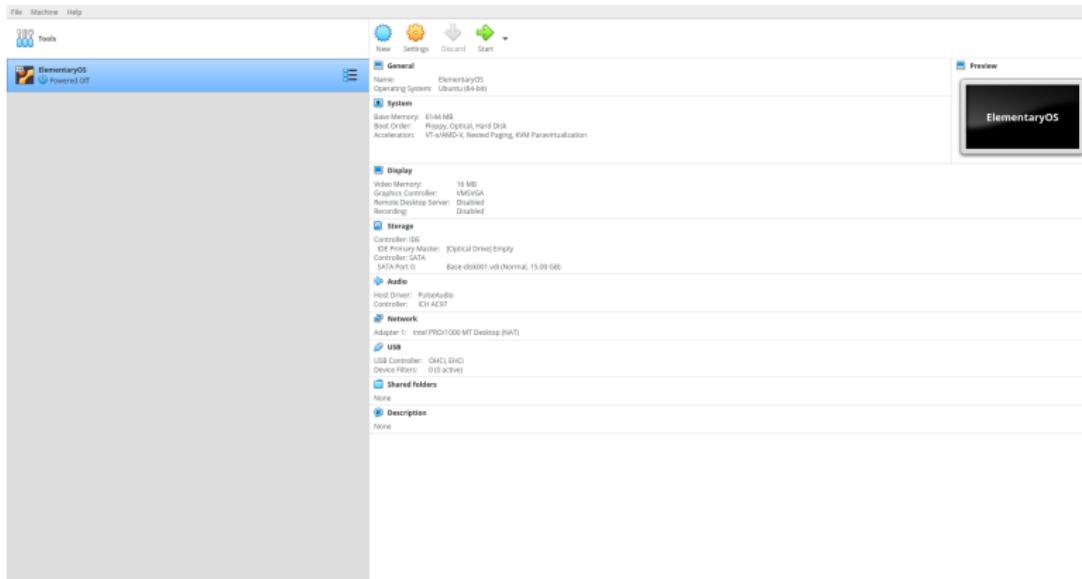
Our Programming Environment

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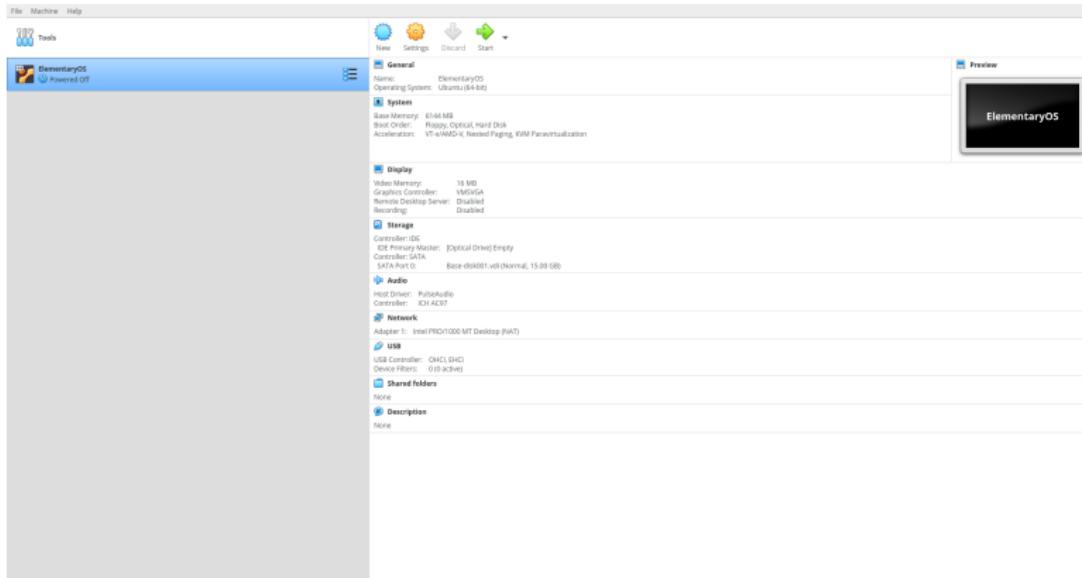
VirtualBox running a linux-based virtual machine (Elementary OS):



Click "Start" to start the machine

Our Programming Environment

VirtualBox running a linux-based virtual machine (Elementary OS):



Click “Start” to start the machine

Login as Uber Student (username `student`) with password `enigma`

Our Programming Environment

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Elementary OS:

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Elementary OS:



On the dock: Epiphany web browser 🌐, PyCharm IDE 💡, IntelliJ IDEA 💡, terminal ☈, and file manager 📁

Our Programming Environment

Elementary OS:



On the dock: Epiphany web browser 🌐, PyCharm IDE 💻, IntelliJ IDE 💻, terminal ☰, and file manager ☰

To stop the machine, click ⏪ and select “Shut Down...”

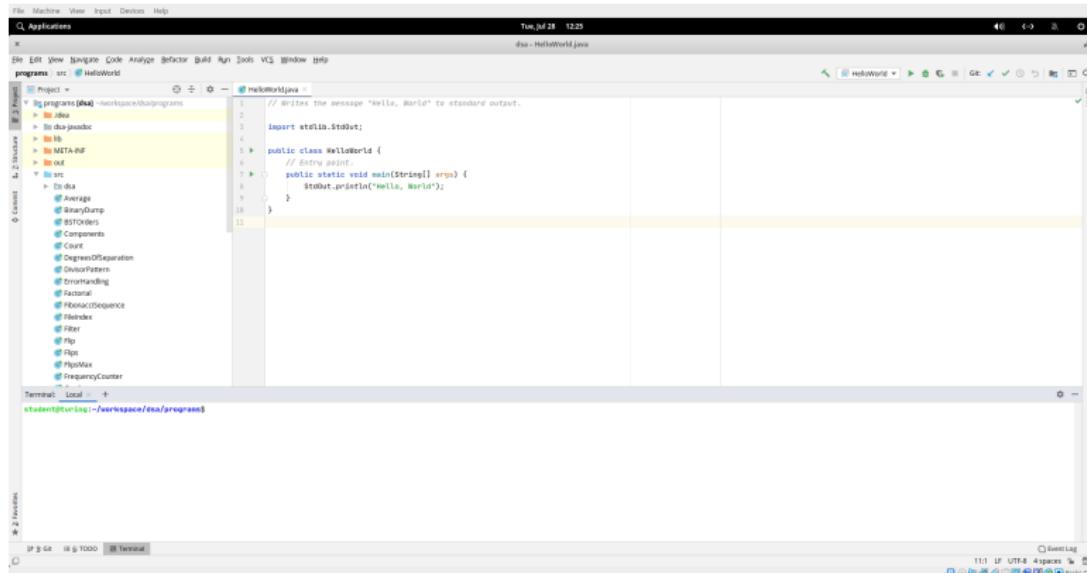
Our Programming Environment

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Use IntelliJ IDE  to create/edit/debug/run Java programs:

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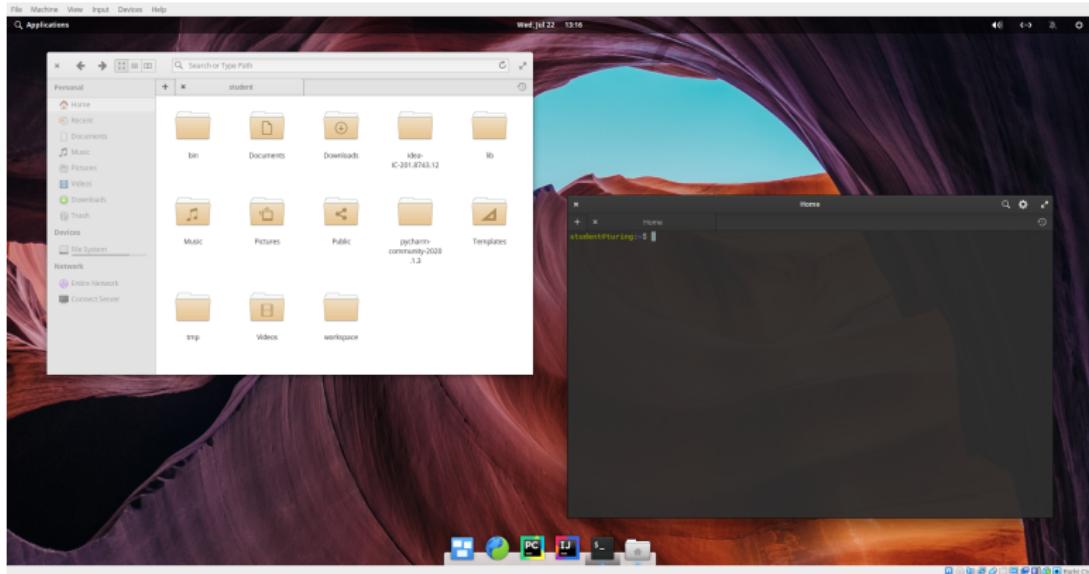
Our Programming Environment

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Use terminal  and file manager  to navigate the file system:

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Use terminal  and file manager  to navigate the file system:



Working on a Project

Working on a Project

Launch terminal (opens in `/home/student` or `-` by default)



A screenshot of a terminal window. The title bar is dark grey with white text showing a right-pointing arrow and a minus sign. The main area is white with a light grey border. It contains a command prompt starting with a dollar sign (\$) and a space.

Working on a Project

Launch terminal (opens in `/home/student` or `-` by default)

```
>_ ~
```

```
$ _
```

Change directory to `workspace`

```
>_ ~
```

```
$ cd workspace
```

Working on a Project

Launch terminal (opens in `/home/student` or `-` by default)

```
>_ ~  
$ _
```

Change directory to `workspace`

```
>_ ~  
$ cd workspace
```

Download the project (eg, Project 1)

```
>_ ~/workspace  
$ wget https://swamiiyer.net/cs210/project1.zip
```

Working on a Project

Launch terminal (opens in `/home/student` or `-` by default)

```
>_ ~  
$ _
```

Change directory to `workspace`

```
>_ ~  
$ cd workspace
```

Download the project (eg, Project 1)

```
>_ ~/workspace  
$ wget https://swamiiyer.net/cs210/project1.zip
```

Extract the downloaded zip file

```
>_ ~/workspace  
$ unzip project1.zip
```

Working on a Project

Working on a Project

List current directory

```
>_ ~/workspace  
$ ls  
project1 project1.zip
```

Working on a Project

List current directory

```
>_ ~/workspace  
$ ls  
project1 project1.zip
```

Remove the zip file

```
>_ ~/workspace  
$ rm project1.zip
```

Working on a Project

List current directory

```
>_ ~/workspace  
$ ls  
project1 project1.zip
```

Remove the zip file

```
>_ ~/workspace  
$ rm project1.zip
```

Exit the terminal

```
>_ ~/workspace  
$ exit
```

Working on a Project

List current directory

```
>_ ~/workspace  
$ ls  
project1 project1.zip
```

Remove the zip file

```
>_ ~/workspace  
$ rm project1.zip
```

Exit the terminal

```
>_ ~/workspace  
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```

Open `project1` in IntelliJ to work on the programs

Working on a Project

Working on a Project

Compile a program (eg, `PercolationStats.java`) into the directory `out` on the IntelliJ terminal

```
>_ ~/workspace/project1
```

```
$ javac -d out src/PercolationStats.java
```

Working on a Project

Compile a program (eg, `PercolationStats.java`) into the directory `out` on the IntelliJ terminal

```
>_ ~/workspace/project1  
$ javac -d out src/PercolationStats.java
```

Compile all programs into the directory `out` on the IntelliJ terminal

```
>_ ~/workspace/project1  
$ javac -d out src/*.java
```

Working on a Project

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```

Compile all programs into the directory `out` on the IntelliJ terminal

```
>_ ~/workspace/project1  
$ javac -d out src/*.java
```

Run a program (eg, `PercolationStats.class`) on the IntelliJ terminal

```
>_ ~/workspace/project1  
$ java PercolationStats 100 1000
```

Working on a Project

Compile a program (eg, `PercolationStats.java`) into the directory `out` on the IntelliJ terminal

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>_ ~/workspace/project1  
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```

Run a program (eg, `PercolationStats.class`) on the IntelliJ terminal

```
>_ ~/workspace/project1  
$ java PercolationStats 100 1000
```

Check a program (eg, `PercolationStats.java`) for coding style on the IntelliJ terminal

```
>_ ~/workspace/project1  
$ check_style src/PercolationStats.java
```

Working on a Project

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```

Use the web browser  to sign on to Gradescope and upload the project files