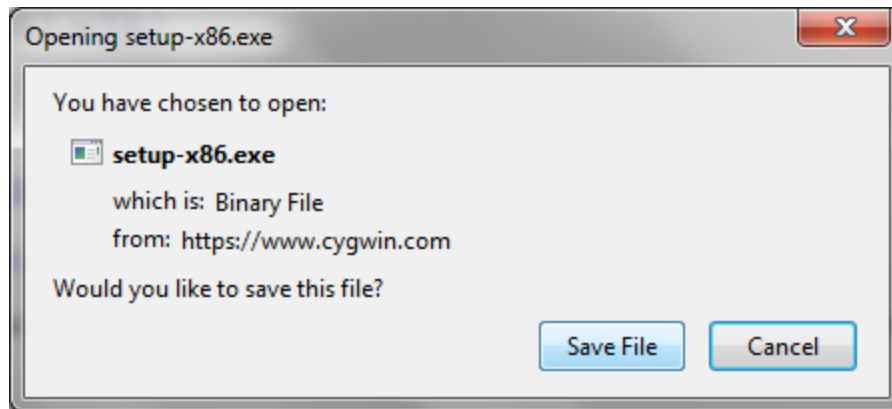
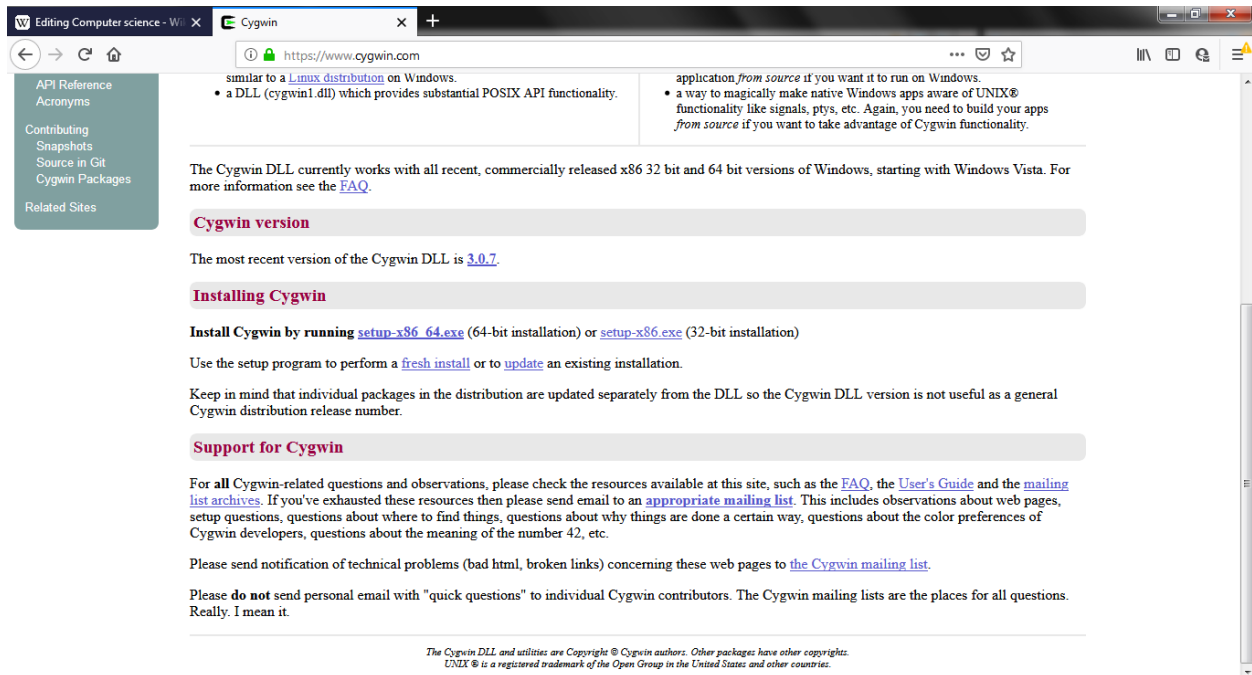


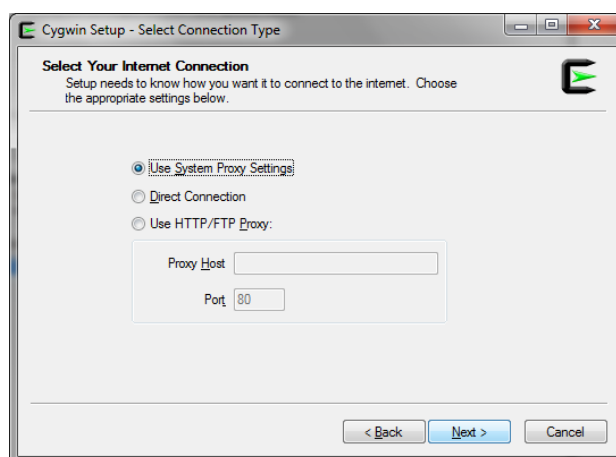
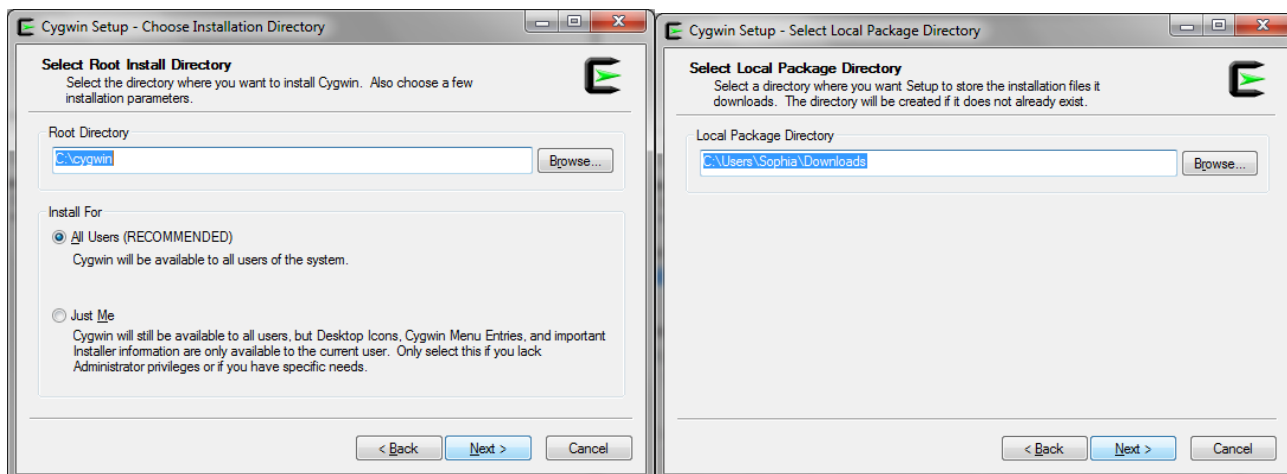
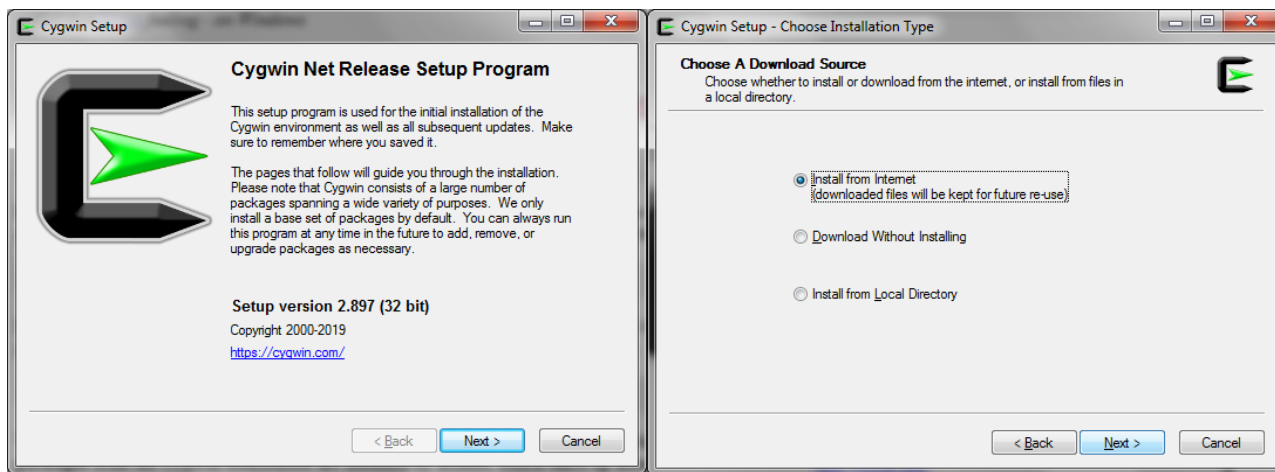
PRACTICAL 4

AIM: To install and use GCC through Cygwin.

STEP1: First, go to the Cygwin homepage, download setupx86.exe, and run it.

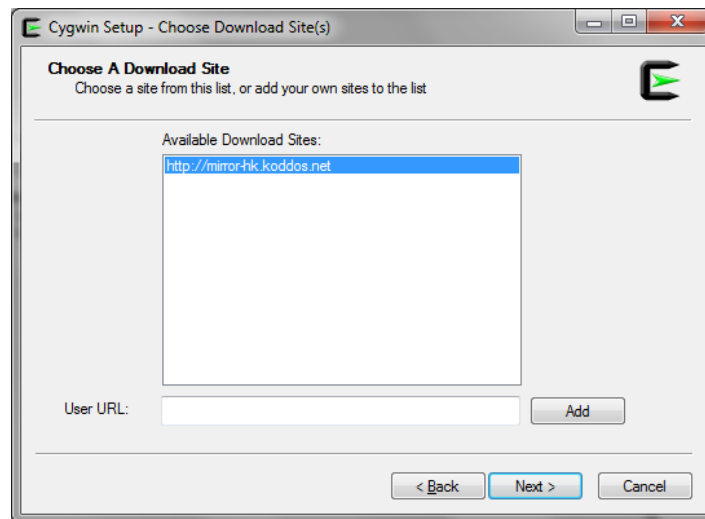


STEP2: Give it some information about your internet connection, although most of the time you can just accept the defaults and keep going.

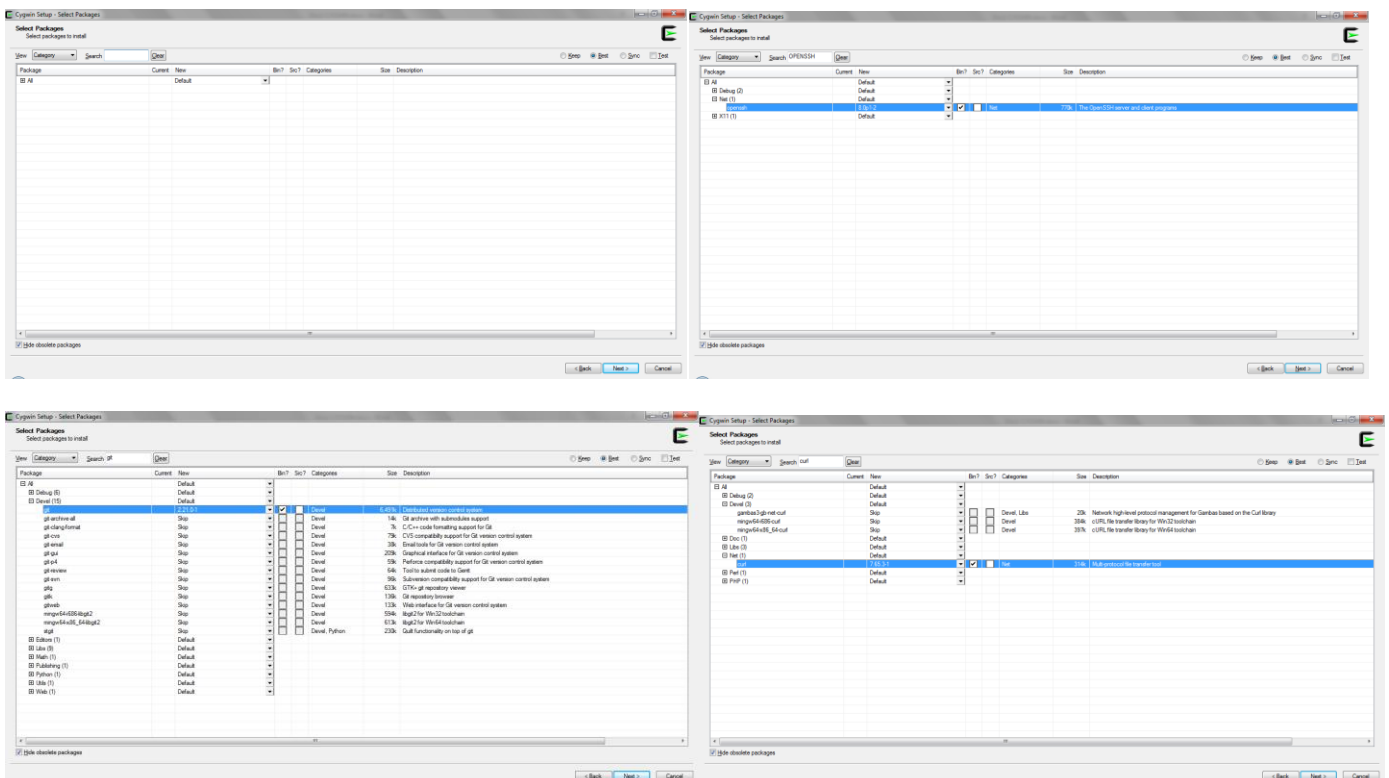


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STEP3: Next, Cygwin will show you a long list of download sites. Each one is exactly the same: you can pick one at random. You do not need to pick the same download site shown in the screenshot. After you've picked one and clicked the "next" button

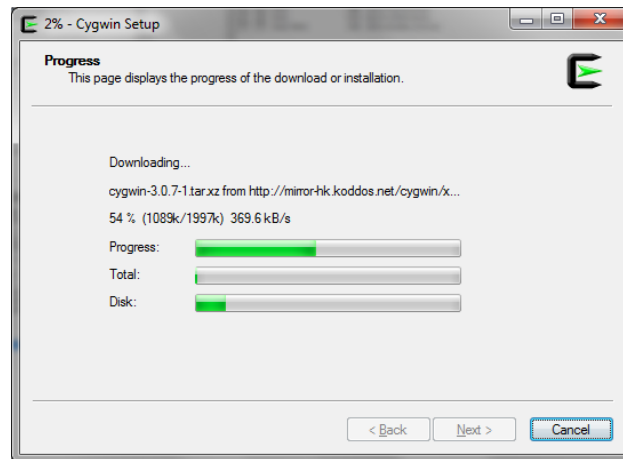


STEP4: Now, we get to select what software we want to install from the download site. We want to install three software packages: **openssh**, **git**, and **curl**. For each one, use the search box to find the package, and then click on the word "Skip" so that it changes to a version number. Install the latest available version for each of these packages.

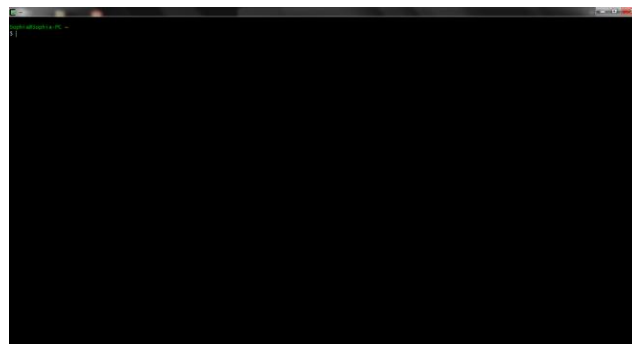


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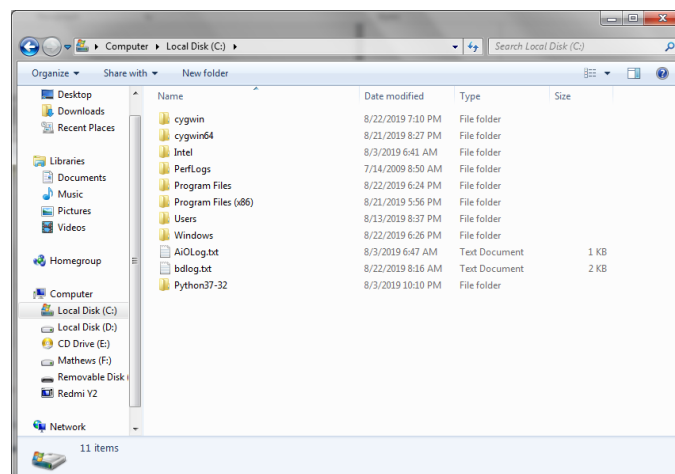
STEP5: Next, Cygwin will tell you that you need to install certain other packages as dependencies. Basically, this means that if you want to use a certain package named A, and A relies on another package named B in order to run correctly, then Cygwin will detect this and ask to install package B as well. You can just hit "Next". At that point, Cygwin will start downloading and installing all the packages that you've requested, as well as all their dependencies.



STEP6: If you ask Cygwin to install an icon on your desktop, it will do so, creating a shortcut named "Cygwin Terminal". You'll use this icon to run your Python code, as well as to access the openssh, git, and curl packages that you installed. Double-click the icon to run Cygwin Terminal, and you'll see a screen like this pop up:



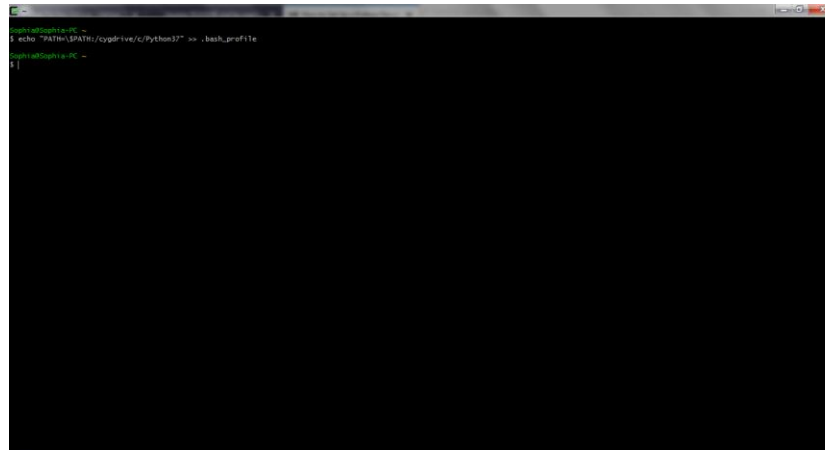
STEP7: For Python to connect with Cygwin paste the Python37-32 folder to the C drive



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STEP8: To tell Cygwin how to find Python, run the following command:

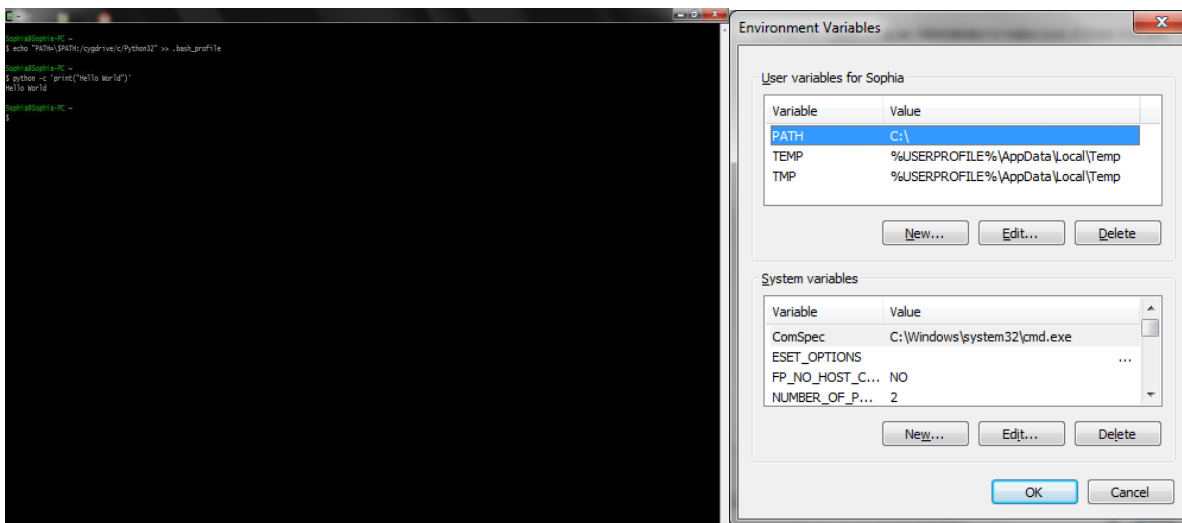
echo "PATH=\\$PATH:/cygdrive/c/Python32" >> .bash_profile



STEP9: Now that you're all set up, let's verify that everything is working properly! Write a "Hello, World!" program in Python! If your computer is set up properly, this should work properly:

\$ python -c 'print("Hello, World!")'

If an error stating python command not found arises go the system setup→Environment Variable→ Path and change the path to C:\



STEP 10: Open up Notepad, and type in the following:

```
#!/usr/bin/env python

radius= int(input('Enter the radius:'))

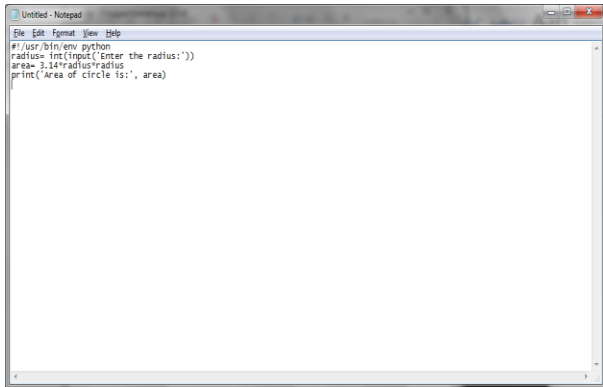
area= 3.14*radius*radius

print('Area of circle is:', area)
```

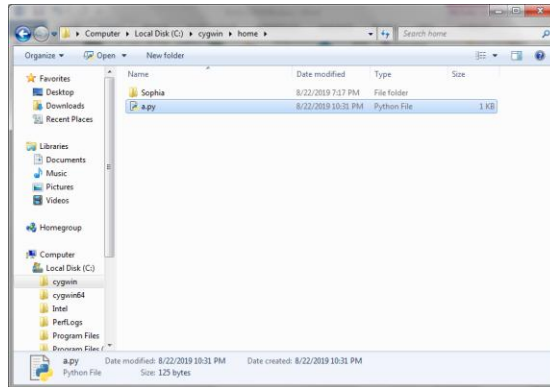
Save this notepad file to C drive→ Cygwin→home as a.py

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```
Untitled - Notepad
File Edit Format View Help
#!/usr/bin/env python
radius= int(input('Enter the radius:'))
area= 3.14*radius*radius
print('Area of circle is:', area)
```



STEP11:Give the commands:

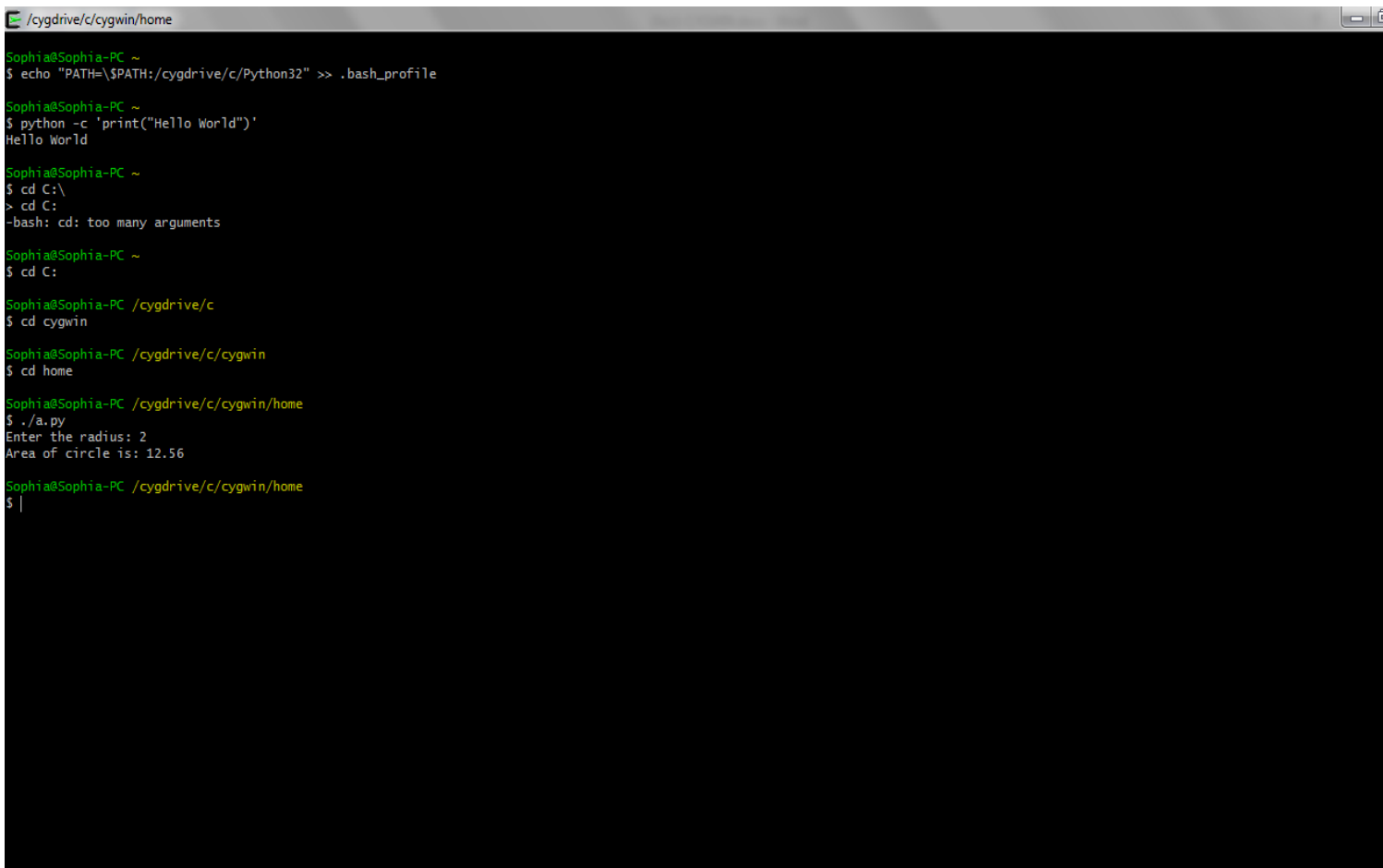
cd C:

cd cygwin

cd home

./a.py

This command will run the python program to print area of a circle after seeking input of radius from the user.



```
/cygdrive/c/cygwin/home
Sophia@Sophia-PC ~
$ echo "PATH=$PATH:/cygdrive/c/Python32" >> .bash_profile

Sophia@Sophia-PC ~
$ python -c 'print("Hello World")'
Hello World

Sophia@Sophia-PC ~
$ cd C:\
> cd C:
-bash: cd: too many arguments

Sophia@Sophia-PC ~
$ cd C:

Sophia@Sophia-PC /cygdrive/c
$ cd cygwin

Sophia@Sophia-PC /cygdrive/c/cygwin
$ cd home

Sophia@Sophia-PC /cygdrive/c/cygwin/home
$ ./a.py
Enter the radius: 2
Area of circle is: 12.56

Sophia@Sophia-PC /cygdrive/c/cygwin/home
$ |
```