

Divided in 3 parts:

## Part 1:

1. Use build essential:

```
sudo apt-get install build-essential && sudo apt-get update && sudo apt-get upgrade
```

## Part 2:

- Make a batch file using the following commands.

{

1. Creating a file:

```
gedit demo.sh
```

2. Adding code into file:

```
#!/bin/bash
```

```
echo "Hello world!"
```

```
*other code also allowed*
```

3. Make the file executable

```
chmod +x demo.sh
```

4. Run the file from Terminal

```
./demo.sh
```

```
}
```

- Make a batch file from the above step using the contents on the next page:
- Download libgraph from this link <http://download.savannah.gnu.org/releases/libgraph/libgraph-1.0.2.tar.gz>
- Extract the downloaded file and open the extracted folder, open a terminal in that folder.
- Next run a command like this:  

```
./configure --disable-guile
```
- Now, run 

```
make
```
- Next, run 

```
sudo make install
```

Next, run this : 

```
sudo cp /usr/local/lib/libgraph.* /usr/lib
```

```
sudo apt-get install libSDL-image1.2 libSDL-image1.2-dev guile-2.0
```

```
sudo apt-get install guile-2.0-dev libSDL1.2debian libart-2.0-dev libaudiofile-dev
```

```
sudo apt-get install libesd0-dev libdirectfb-dev libdirectfb-extra libfreetype6-dev
```

```
sudo apt-get install libxext-dev x11proto-xext-dev libfreetype6 libaa1 libaa1-dev
```

```
sudo apt-get install libslang2-dev libasound2 libasound2-dev
```

```
sudo apt install libplib-dev
```

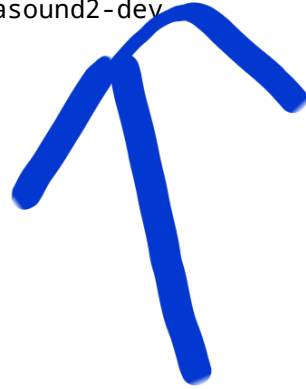
```
sudo apt-get install libqt4-dev
```

```
sudo apt-get install libjack0
```

```
sudo apt-get install libjack-dev
```

```
sudo apt-get install libasound2-dev
```

```
sudo apt-get install libsndfile1-dev
```



Copy

this code

in terminal.

## Part 3:

- Run this demo code:

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <graphics.h>
```

```
int main() {
```

```
    int gd = DETECT, gm;
```

```
    initgraph(&gd, &gm, NULL);
```

```
    circle(50, 50, 30);
```

```
    delay(500000);
```

```
    closegraph();
```

```
    return 0;
```

```
}
```

Save and run this file in Terminal using the command:

```
gcc main.c -o main -lgraph
```