Certification Page

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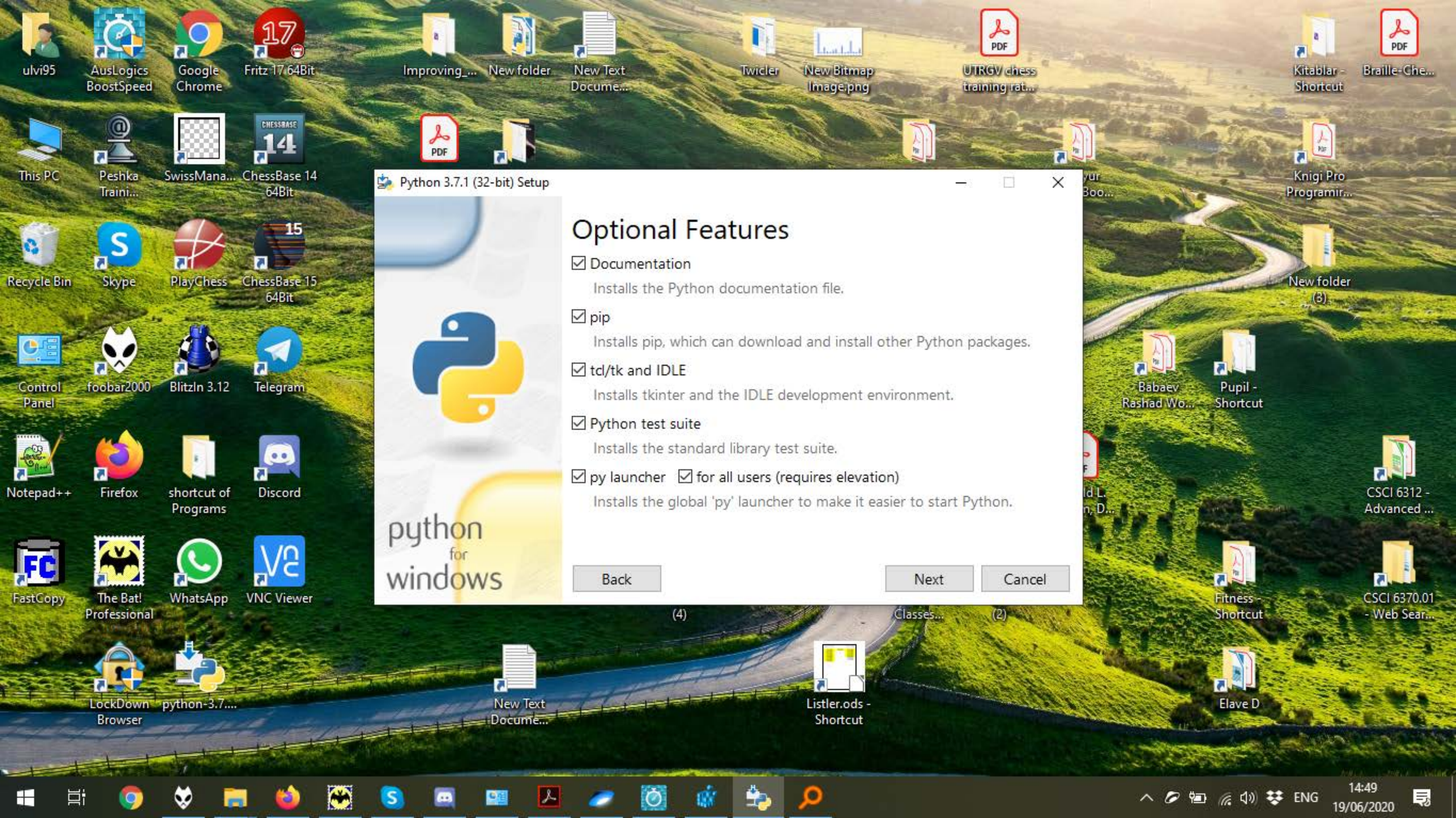
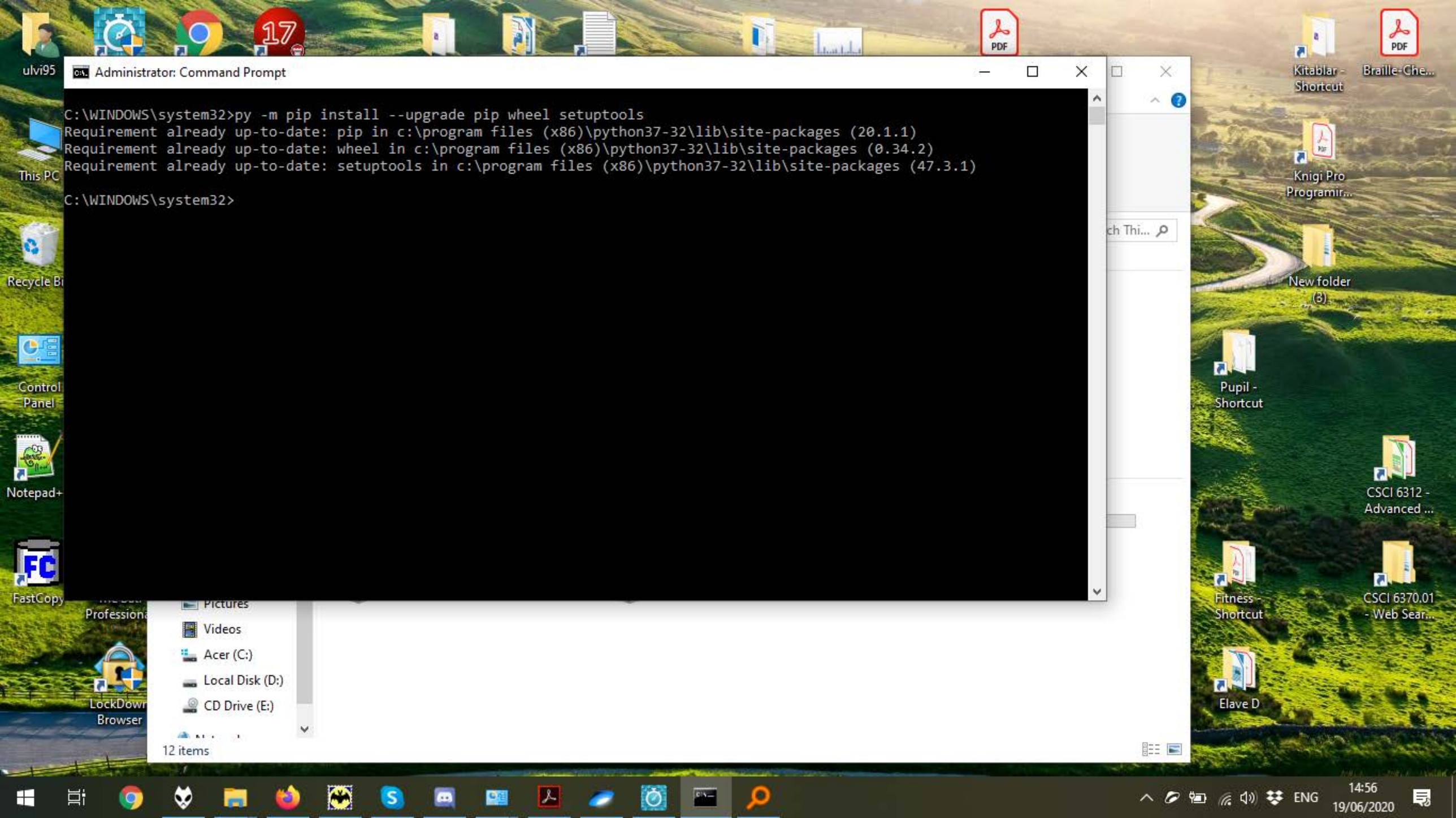
I, **Ulvi Bajarani**, certify that the work I am uploading represents my own efforts, and is not copied from anyone else or any other resource (such as Internet). *Furthermore, I certify that I have not let anyone copy from my work.*

Files

Version	Operating System	Description	MD5 Sum	File Size	GPG
Gzipped source tarball	Source release		99f78ecbfc766ea449c4d9e7eda19e83	22802018	SIG
XZ compressed source tarball	Source release		0a57e9022c07fad3dadb2eef58568edb	16960060	SIG
macOS 64-bit/32-bit installer	Mac OS X	for Mac OS X 10.6 and later	ac6630338b53b9e5b9dbb1bc2390a21e	34360623	SIG
macOS 64-bit installer	Mac OS X	for OS X 10.9 and later	b69d52f22e73e1fe37322337eb199a53	27725111	SIG
Windows help file	Windows		b5ca69aa44aa46cdb8cf2b527d699740	8534435	SIG
Windows x86-64 embeddable zip file	Windows	for AMD64/EM64T/x64	74f919be8add2749e73d2d91eb6d1da5	6879900	SIG
Windows x86-64 executable installer	Windows	for AMD64/EM64T/x64	4c9fd65b437ad393532e57f15ce832bc	26260496	SIG
Windows x86-64 web-based installer	Windows	for AMD64/EM64T/x64	6d866305db7e3d523ae0eb252ebd9407	1333960	SIG
Windows x86 embeddable zip file	Windows		aa4188ea480a64a3ea87e72e09f4c097	6377805	SIG
Windows x86 executable installer	Windows		da24541f28e4cc133c53f0638459993c	25537464	SIG
Windows x86 web-based installer	Windows		20b16304193586287643370881 9c97db	1297224	SIG


Python 3.7.1 (32-bit) Setup
Optional Features
Documentation
Installs the Python documentation file.
pip
Installs pip, which can download and install other Python packages.
tcl/tk and IDLE
Installs tkinter and the IDLE development environment.
Python test suite
Installs the standard library test suite.
py launcher
for all users (requires elevation)
Installs the global 'py' launcher to make it easier to start Python.
python for windows
Back
Next
Cancel
ulvi95
AusLogics BoostSpeed
Google Chrome
Fritz 17 64Bit
Improving_...
New folder
New Text Docume...
Twicler
New Bitmap Image.png
UTRGV chess training rat...
Kitablar - Shortcut
Braille-Che...
This PC
Peshka Traini...
SwissMana...
ChessBase 14 64Bit
Knigi Pro Programir...
Recycle Bin
Skype
PlayChess
ChessBase 15 64Bit
New folder (3)
Control Panel
foobar2000
BlitzIn 3.12
Telegram
Babaev Rashad Wo...
Pupil - Shortcut
Notepad++
Firefox
shortcut of Programs
Discord
CSCI 6312 - Advanced ...
FastCopy
The Bat! Professional
WhatsApp
VNC Viewer
Fitness - Shortcut
CSCI 6370.01 - Web Sear...
LockDown Browser
python-3.7....
New Text Docume...
Listler.ods - Shortcut
Elave D
(4)
Classes...
(2)
ENG
14:49
19/06/2020


Administrator: Command Prompt
C:\WINDOWS\system32>py -m pip install --upgrade pip wheel setuptools
Requirement already up-to-date: pip in c:\program files (x86)\python37-32\lib\site-packages (20.1.1)
Requirement already up-to-date: wheel in c:\program files (x86)\python37-32\lib\site-packages (0.34.2)
Requirement already up-to-date: setuptools in c:\program files (x86)\python37-32\lib\site-packages (47.3.1)
C:\WINDOWS\system32>
Pictures
Videos
Acer (C:)
Local Disk (D:)
CD Drive (E:)
12 items
ulvi95
This PC
Recycle Bi
Control Panel
Notepad+
FastCopy
LockDown Browser
Kitablar - Shortcut
Braille-Che...
Knigi Pro Programir...
New folder (3)
Pupil - Shortcut
CSCI 6312 - Advanced ...
Fitness - Shortcut
CSCI 6370.01 - Web Sear...
Elave D
ENG
14:56
19/06/2020

Administrator: Command Prompt

```
C:\WINDOWS\system32>py -m pip install docutils pygments pypiwin32 kivy.deps.sdl2 kivy.deps.glew
Collecting docutils
  Using cached docutils-0.16-py2.py3-none-any.whl (548 kB)
Collecting pygments
  Using cached Pygments-2.6.1-py3-none-any.whl (914 kB)
Collecting pypiwin32
  Using cached pypiwin32-223-py3-none-any.whl (1.7 kB)
Collecting kivy.deps.sdl2
  Downloading kivy_deps.sdl2-0.2.0-cp37-cp37m-win32.whl (2.3 MB)
     |████████████████████████████████| 2.3 MB 193 kB/s
Collecting kivy.deps.glew
  Downloading kivy_deps.glew-0.2.0-cp37-cp37m-win32.whl (126 kB)
     |████████████████████████████████| 126 kB 656 kB/s
Collecting pywin32>=223
  Downloading pywin32-228-cp37-cp37m-win32.whl (8.4 MB)
     |████████████████████████████████| 8.4 MB 1.3 MB/s
Installing collected packages: docutils, pygments, pywin32, pypiwin32, kivy.deps.sdl2, kivy.deps.glew
Successfully installed docutils-0.16 kivy.deps.glew kivy.deps.sdl2 pygments-2.6.1 pypiwin32-223 pywin32-228

C:\WINDOWS\system32>
```

Administrator: Command Prompt

```
C:\WINDOWS\system32>py -m pip install kivy.deps.gstreamer
Collecting kivy.deps.gstreamer
  Downloading kivy_deps.gstreamer-0.2.0-cp37-cp37m-win32.whl (106.1 MB)
     |████████████████████████████████| 106.1 MB 70 kB/s
Installing collected packages: kivy.deps.gstreamer
Successfully installed kivy.deps.gstreamer

C:\WINDOWS\system32>py -m pip install kivy.deps.angle
Collecting kivy.deps.angle
  Downloading kivy_deps.angle-0.2.0-cp37-cp37m-win32.whl (4.3 MB)
     |████████████████████████████████| 4.3 MB 2.2 MB/s
Installing collected packages: kivy.deps.angle
Successfully installed kivy.deps.angle

C:\WINDOWS\system32>py -m pip install pygame
Collecting pygame
  Downloading pygame-1.9.6-cp37-cp37m-win32.whl (4.0 MB)
     |████████████████████████████████| 4.0 MB 819 kB/s
Installing collected packages: pygame
Successfully installed pygame-1.9.6

C:\WINDOWS\system32>
```

Select Administrator: Command Prompt

```
C:\WINDOWS\system32>py -m pip install kivy
Collecting kivy
  Downloading Kivy-1.11.1-cp37-cp37m-win32.whl (3.7 MB)
     |████████████████████████████████| 3.7 MB 819 kB/s
Collecting Kivy-Garden>=0.1.4
  Downloading kivy-garden-0.1.4.tar.gz (6.8 kB)
Requirement already satisfied: docutils in c:\program files (x86)\python37-32\lib\site-packages (from kivy) (0.16)
Requirement already satisfied: pygments in c:\program files (x86)\python37-32\lib\site-packages (from kivy) (2.6.1)
Collecting requests
  Downloading requests-2.24.0-py2.py3-none-any.whl (61 kB)
     |████████████████████████████████| 61 kB 4.9 kB/s
Collecting idna<3,>=2.5
  Using cached idna-2.9-py2.py3-none-any.whl (58 kB)
Collecting urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1
  Using cached urllib3-1.25.9-py2.py3-none-any.whl (126 kB)
Collecting chardet<4,>=3.0.2
  Using cached chardet-3.0.4-py2.py3-none-any.whl (133 kB)
Collecting certifi>=2017.4.17
  Downloading certifi-2020.4.5.2-py2.py3-none-any.whl (157 kB)
     |████████████████████████████████| 157 kB 930 kB/s
Building wheels for collected packages: Kivy-Garden
  Building wheel for Kivy-Garden (setup.py) ... done
  Created wheel for Kivy-Garden: filename=Kivy_Garden-0.1.4-py3-none-any.whl size=4534 sha256=23454e6bd936bc87b412282746cd8de4cc7a47addbadf17da4c54c5c4c3b68c2
  Stored in directory: c:\users\ulvi95\appdata\local\pip\cache\wheels\3f\43\e3\50289d555356f0421d1c388c82d052d5788f22a34d0cd8659d
Successfully built Kivy-Garden
Installing collected packages: idna, urllib3, chardet, certifi, requests, Kivy-Garden, kivy
Successfully installed Kivy-Garden-0.1.4 certifi-2020.4.5.2 chardet-3.0.4 idna-2.9 kivy-1.11.1 requests-2.24.0 urllib3-1.25.9

C:\WINDOWS\system32>
```

Administrator: Command Prompt

```
C:\WINDOWS\system32>py
Python 3.7.1 (v3.7.1:260ec2c36a, Oct 20 2018, 14:05:16) [MSC v.1915 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> Import kivy
  File "<stdin>", line 1
    Import kivy
           ^
SyntaxError: invalid syntax
>>> Import kivy
  File "<stdin>", line 1
    Import kivy
           ^
SyntaxError: invalid syntax
>>> import kivy
[WARNING] [Config      ] Older configuration version detected (0 instead of 21)
[WARNING] [Config      ] Upgrading configuration in progress.
[INFO   ] [Logger      ] Record log in C:\Users\ulvi95\.kivy\logs\kivy_20-06-19_0.txt
[INFO   ] [deps        ] Successfully imported "kivy_deps.gstreamer" 0.2.0
[INFO   ] [deps        ] Successfully imported "kivy_deps.angle" 0.2.0
[INFO   ] [deps        ] Successfully imported "kivy_deps.glew" 0.2.0
[INFO   ] [deps        ] Successfully imported "kivy_deps.sdl2" 0.2.0
[INFO   ] [Kivy        ] v1.11.1
[INFO   ] [Kivy        ] Installed at "C:\Program Files (x86)\Python37-32\lib\site-packages\kivy\__init__.py"
[INFO   ] [Python      ] v3.7.1 (v3.7.1:260ec2c36a, Oct 20 2018, 14:05:16) [MSC v.1915 32 bit (Intel)]
[INFO   ] [Python      ] Interpreter at "C:\Program Files (x86)\Python37-32\python.exe"
>>> exit
Use exit() or Ctrl-Z plus Return to exit
>>> exit()

C:\WINDOWS\system32>
```

Python 3.7.1 Shell

File Edit Shell

```
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [Wi
[INFO    ] [Wi
[INFO    ] [Ba
[INFO    ] [GL

==========
[INFO    ] [Lo
[INFO    ] [de
[INFO    ] [de
[INFO    ] [de
[INFO    ] [de
[INFO    ] [Ki
[INFO    ] [Ki
[INFO    ] [Py
[INFO    ] [Py
[INFO    ] [Fa
[INFO    ] [Im
[INFO    ] [Te
[INFO    ] [Wi
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [GL
[INFO    ] [Wi
[INFO    ] [Wi
[INFO    ] [Ba
[INFO    ] [GL
```

Test.py - C:/Users/ulvi95/Desktop/Test.py (3.7.1)

File Edit Format Run Options Window Help

```
import kivy
from kivy.app import App
from kivy.uix.label import Label

class MyApp(App):
#build function
    def build(self):
        return Label (text="My First Kivy App!")

if __name__ == "__main__": #run the App
    MyApp().run()
```

Ln: 8 Col: 46

My

My First Kivy App!

Ln: 34 Col: 0

ENG 15:12 19/06/2020

Python 3.7.1 Shell

File Edit Shell Debug Options Window Help

```
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [Window      ]
[INFO    ] [Window      ]
[INFO    ] [Base        ]
[INFO    ] [GL          ]

================== RESTAR
[INFO    ] [Logger      ]
[INFO    ] [deps        ]
[INFO    ] [deps        ]
[INFO    ] [deps        ]
[INFO    ] [deps        ]
[INFO    ] [Kivy        ]
[INFO    ] [Kivy        ]
[INFO    ] [Python      ]
[INFO    ] [Python      ]
[INFO    ] [Factory     ]
[INFO    ] [Image       ]
[INFO    ] [Text        ]
[INFO    ] [Window      ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [GL          ]
[INFO    ] [Window      ]
[INFO    ] [Window      ]
[INFO    ] [Base        ]
[INFO    ] [GL          ]
```

SwitchExample

LED 1: ON

SW 1: OFF

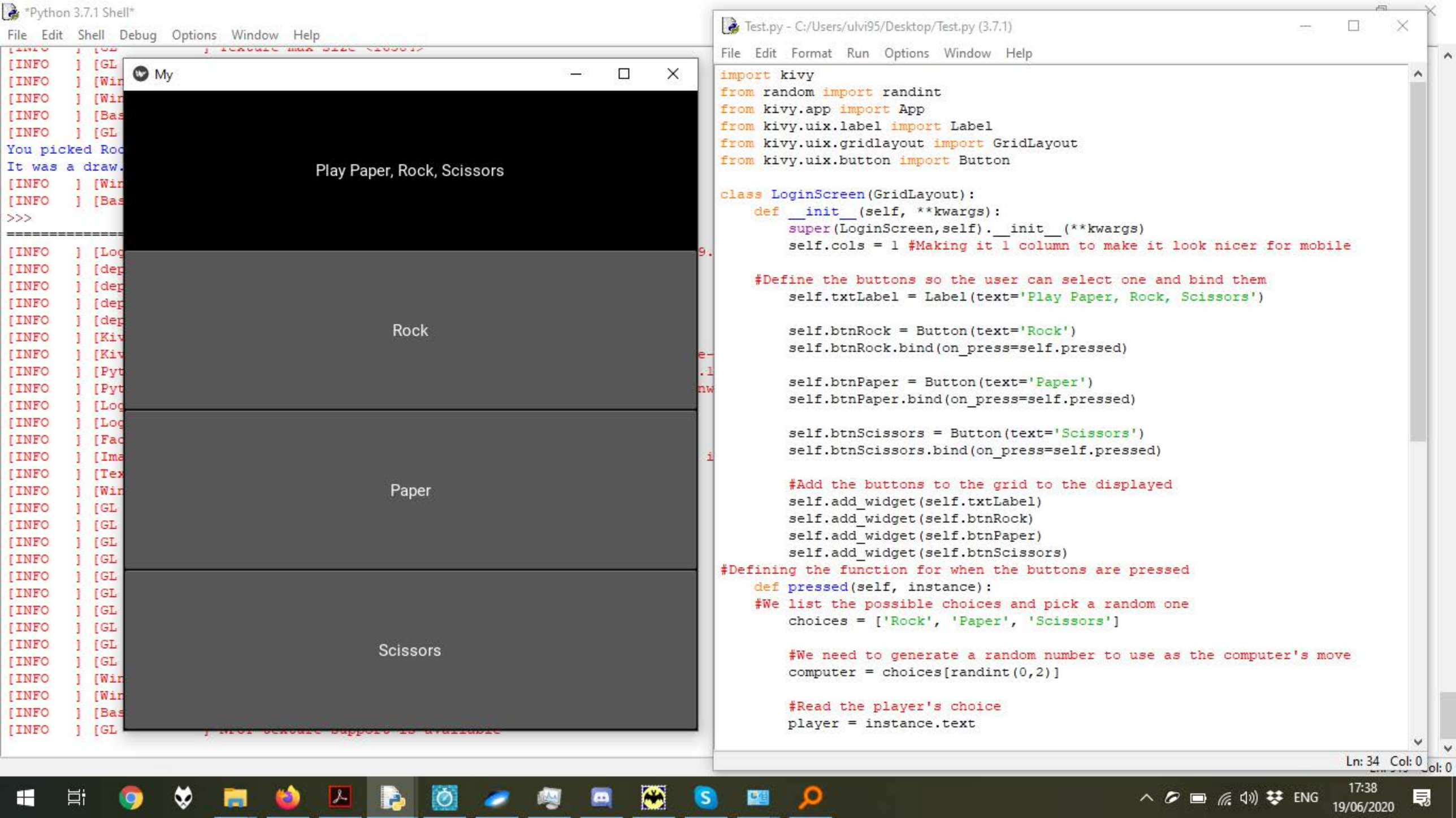
Test.py - C:/Users/ulvi95/Desktop/Test.py (3.7.1)

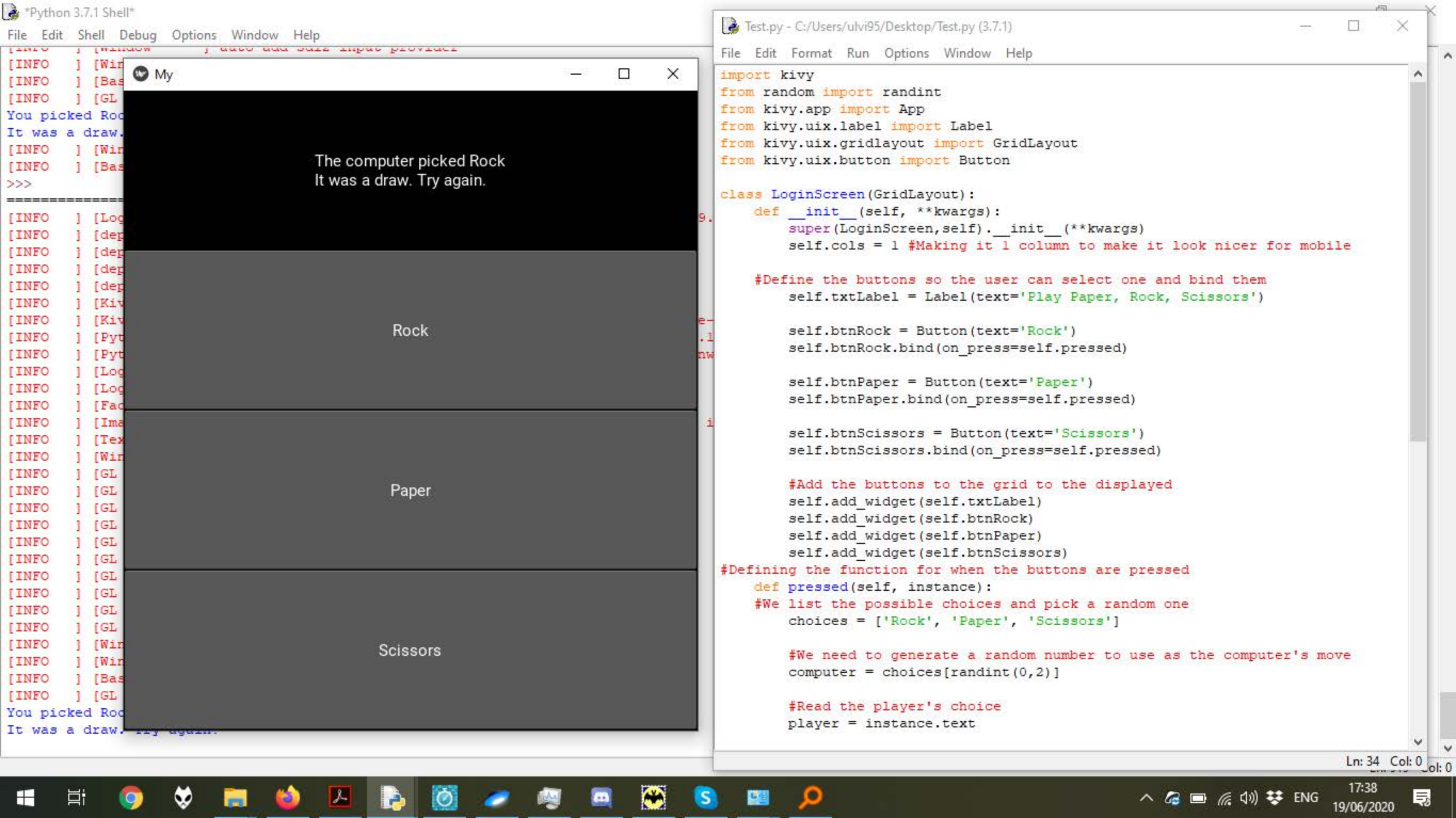
File Edit Format Run Options Window Help

```
#import needed modules
import kivy
from kivy.app import App
from kivy.uix.switch import Switch
from kivy.uix.gridlayout import GridLayout
from kivy.uix.label import Label

class SwitchContainer(GridLayout): #Create a class that uses the GridLayout modu
    def __init__(self, **kwargs):
        super(SwitchContainer, self).__init__(**kwargs)
        self.cols = 2

        self.add_widget(Label(text="LED 1: ")) #Create a label that displays "LE
        self.settings = Switch(active=False)

        self.add_widget(self.settings) #Create a switch (visual) that can be tur
        # self.settings.bind(active=switch_callback1)

        self.add_widget(Label(text="SW 1: ")) #Create a label that displays "LED
        self.settings = Switch(active=False)

        self.add_widget(self.settings) #Create a switch (visual) that can be tur
        # self.settings.bind(active=switch_callback2)

    def switch_callback1(switchObject, switchValue): #output status of the switc
        print('Value of LED 1:', switchValue)

    def switch_callback2(switchObject, switchValue): #output status of the switc
        print('Value of SW 1: ', switchValue)

class SwitchExample(App):
#build function
    def build(self):
        return SwitchContainer()

if __name__ == '__main__': #run the App
    SwitchExample().run()
```

Ln: 38 Col: 0

ENG 15:29 19/06/2020


Python 3.7.1 Shell
File Edit Shell Debug Options Window Help
My
Play Paper, Rock, Scissors
Rock
Paper
Scissors
Test.py - C:/Users/ulvi95/Desktop/Test.py (3.7.1)
File Edit Format Run Options Window Help
import kivy
from random import randint
from kivy.app import App
from kivy.uix.label import Label
from kivy.uix.gridlayout import GridLayout
from kivy.uix.button import Button
class LoginScreen(GridLayout):
def __init__(self, **kwargs):
super(LoginScreen,self).__init__(**kwargs)
self.cols = 1 #Making it 1 column to make it look nicer for mobile
#Define the buttons so the user can select one and bind them
self.txtLabel = Label(text='Play Paper, Rock, Scissors')
self.btnRock = Button(text='Rock')
self.btnRock.bind(on_press=self.pressed)
self.btnPaper = Button(text='Paper')
self.btnPaper.bind(on_press=self.pressed)
self.btnScissors = Button(text='Scissors')
self.btnScissors.bind(on_press=self.pressed)
#Add the buttons to the grid to the displayed
self.add_widget(self.txtLabel)
self.add_widget(self.btnRock)
self.add_widget(self.btnPaper)
self.add_widget(self.btnScissors)
#Defining the function for when the buttons are pressed
def pressed(self, instance):
#We list the possible choices and pick a random one
choices = ['Rock', 'Paper', 'Scissors']
#We need to generate a random number to use as the computer's move
computer = choices[randint(0,2)]
#Read the player's choice
player = instance.text
Ln: 34 Col: 0
ENG
17:38
19/06/2020


Python 3.7.1 Shell
File Edit Shell Debug Options Window Help
You picked Roc
It was a draw.
>>>
You picked Roc
It was a draw. Try again.
My
The computer picked Rock
It was a draw. Try again.
Rock
Paper
Scissors
Test.py - C:/Users/ulvi95/Desktop/Test.py (3.7.1)
File Edit Format Run Options Window Help
import kivy
from random import randint
from kivy.app import App
from kivy.uix.label import Label
from kivy.uix.gridlayout import GridLayout
from kivy.uix.button import Button
class LoginScreen(GridLayout):
def __init__(self, **kwargs):
super(LoginScreen,self).__init__(**kwargs)
self.cols = 1 #Making it 1 column to make it look nicer for mobile
#Define the buttons so the user can select one and bind them
self.txtLabel = Label(text='Play Paper, Rock, Scissors')
self.btnRock = Button(text='Rock')
self.btnRock.bind(on_press=self.pressed)
self.btnPaper = Button(text='Paper')
self.btnPaper.bind(on_press=self.pressed)
self.btnScissors = Button(text='Scissors')
self.btnScissors.bind(on_press=self.pressed)
#Add the buttons to the grid to the displayed
self.add_widget(self.txtLabel)
self.add_widget(self.btnRock)
self.add_widget(self.btnPaper)
self.add_widget(self.btnScissors)
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def pressed(self, instance):
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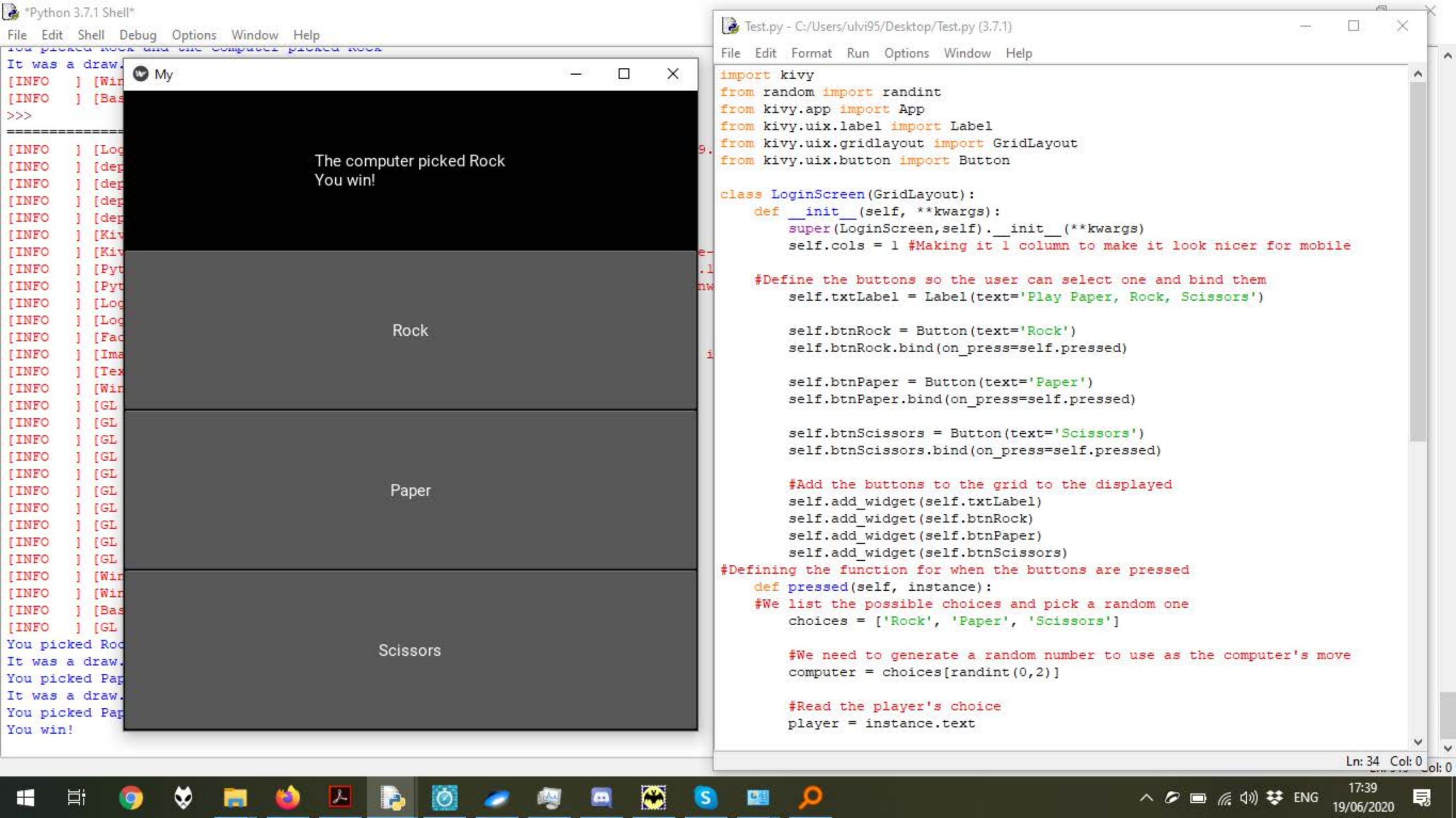
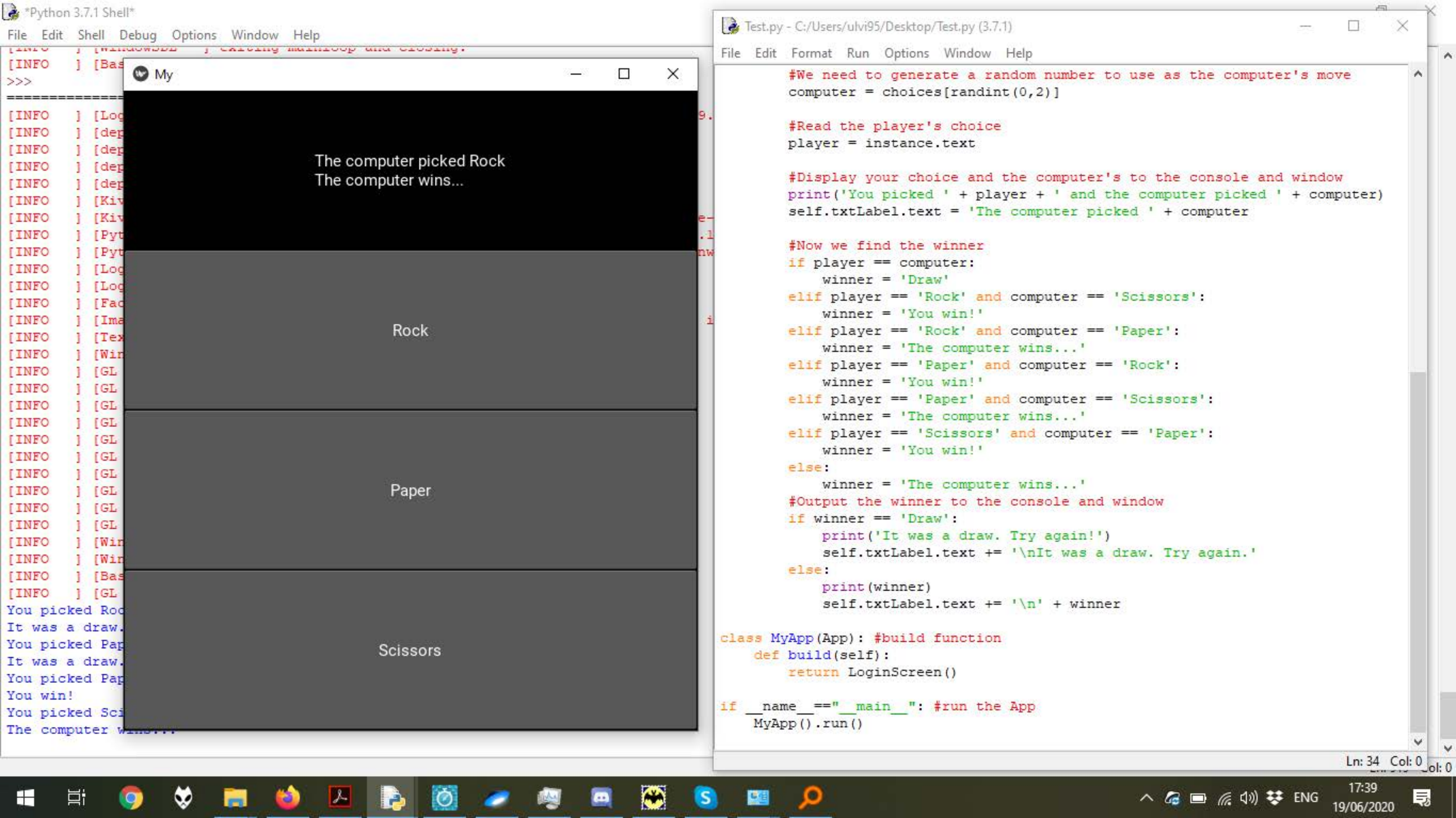
#We need to generate a random number to use as the computer's move
computer = choices[randint(0,2)]
#Read the player's choice
player = instance.text
Ln: 34 Col: 0
ENG
17:38
19/06/2020


Python 3.7.1 Shell
File Edit Shell Debug Options Window Help
It was a draw.
>>>
My
The computer picked Rock
You win!
Rock
Paper
Scissors
You picked Roc
It was a draw.
You picked Pap
It was a draw.
You picked Pap
You win!
Test.py - C:/Users/ulvi95/Desktop/Test.py (3.7.1)
File Edit Format Run Options Window Help
import kivy
from random import randint
from kivy.app import App
from kivy.uix.label import Label
from kivy.uix.gridlayout import GridLayout
from kivy.uix.button import Button
class LoginScreen(GridLayout):
def __init__(self, **kwargs):
super(LoginScreen,self).__init__(**kwargs)
self.cols = 1 #Making it 1 column to make it look nicer for mobile
#Define the buttons so the user can select one and bind them
self.txtLabel = Label(text='Play Paper, Rock, Scissors')
self.btnRock = Button(text='Rock')
self.btnRock.bind(on_press=self.pressed)
self.btnPaper = Button(text='Paper')
self.btnPaper.bind(on_press=self.pressed)
self.btnScissors = Button(text='Scissors')
self.btnScissors.bind(on_press=self.pressed)
#Add the buttons to the grid to the displayed
self.add_widget(self.txtLabel)
self.add_widget(self.btnRock)
self.add_widget(self.btnPaper)
self.add_widget(self.btnScissors)
#Defining the function for when the buttons are pressed
def pressed(self, instance):
#We list the possible choices and pick a random one
choices = ['Rock', 'Paper', 'Scissors']
#We need to generate a random number to use as the computer's move
computer = choices[randint(0,2)]
#Read the player's choice
player = instance.text
Ln: 34 Col: 0
ENG
17:39
19/06/2020


Python 3.7.1 Shell
File Edit Shell Debug Options Window Help
>>>
You picked Roc
It was a draw.
You picked Pap
It was a draw.
You picked Pap
You win!
You picked Sci
The computer wins...
My
The computer picked Rock
The computer wins...
Rock
Paper
Scissors
Test.py - C:/Users/ulvi95/Desktop/Test.py (3.7.1)
File Edit Format Run Options Window Help
#We need to generate a random number to use as the computer's move
computer = choices[randint(0,2)]
#Read the player's choice
player = instance.text
#Display your choice and the computer's to the console and window
print('You picked ' + player + ' and the computer picked ' + computer)
self.txtLabel.text = 'The computer picked ' + computer
#Now we find the winner
if player == computer:
winner = 'Draw'
elif player == 'Rock' and computer == 'Scissors':
winner = 'You win!'
elif player == 'Rock' and computer == 'Paper':
winner = 'The computer wins...'
elif player == 'Paper' and computer == 'Rock':
winner = 'You win!'
elif player == 'Paper' and computer == 'Scissors':
winner = 'The computer wins...'
elif player == 'Scissors' and computer == 'Paper':
winner = 'You win!'
else:
winner = 'The computer wins...'
#Output the winner to the console and window
if winner == 'Draw':
print('It was a draw. Try again!')
self.txtLabel.text += '\nIt was a draw. Try again.'
else:
print(winner)
self.txtLabel.text += '\n' + winner
class MyApp(App): #build function
def build(self):
return LoginScreen()
if __name__=="__main__": #run the App
MyApp().run()
Ln: 34 Col: 0
ENG
17:39
19/06/2020