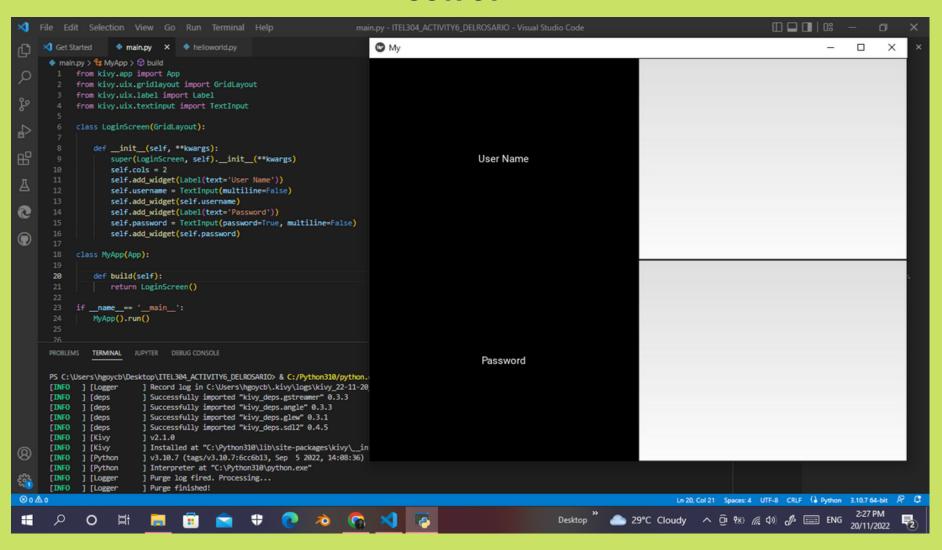# Activity 6.1 Sample login using kivy

```python
from kivy.app import App
from kivy.uix.gridlayout import GridLayout
from kivy.uix.label import Label
from kivy.uix.textinput import TextInput

class LoginScreen(GridLayout):

  def __init__(self, **kwargs):
    super(LoginScreen, self).__init__(**kwargs)
    self.cols = 2
    self.add_widget(Label(text='User Name'))
    self.username = TextInput(multiline=False)
    self.add_widget(self.username)
    self.add_widget(Label(text='Password'))
    self.password = TextInput(password=True, multiline=False)
    self.add_widget(self.password)

class MyApp(App):

  def build(self):
    return LoginScreen()

if __name__ == '__main__':
  MyApp().run()
```
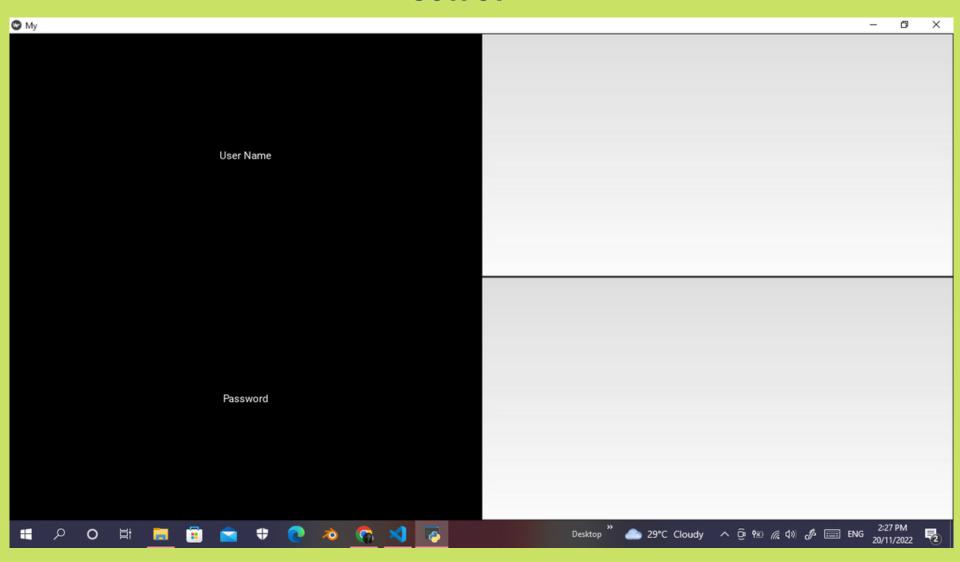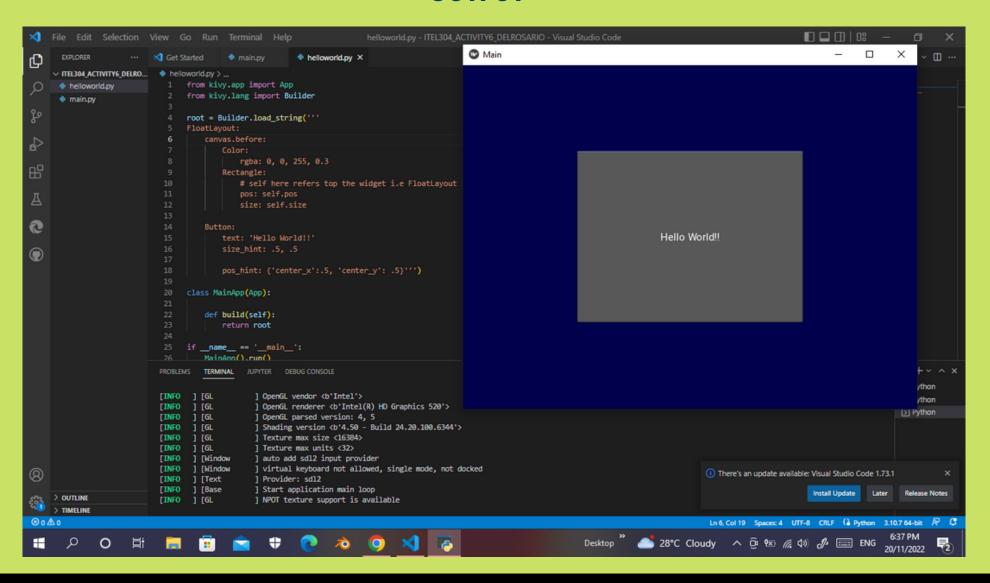
OUTPUT

My

User Name

Password

Activity 6.2 Sample Float Layout.

```python
from kivy.app import App
from kivy.lang import Builder

root = Builder.load_string('''
FloatLayout:
  canvas.before:
    Color:
      rgba: 0, 0, 255, 0.3
    Rectangle:
      # self here refers top the widget i.e FloatLayout
      pos: self.pos
      size: self.size

  Button:
    text: 'Hello World!!'
    size_hint: .5, .5

    pos_hint: {'center_x':.5, 'center_y': .5}''')

class MainApp(App):

  def build(self):
    return root

if __name__ == '__main__':
  MainApp().run()
```

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OUTPUT

OUTPUT

Main

Hello World!!