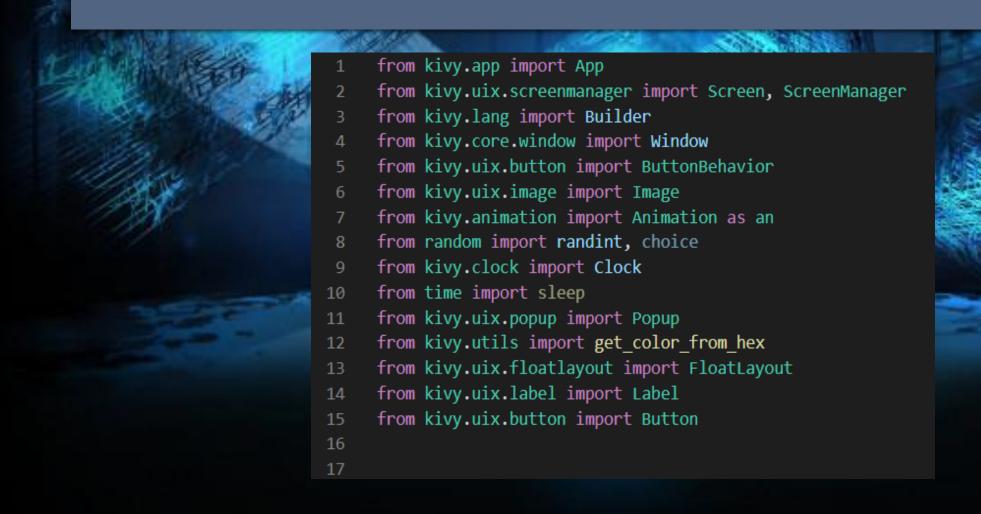


Game.py



```
class ImageBtn(ButtonBehavior, Image):
18
         def init (self, **kwargs):
             super(ImageBtn, self). init (**kwargs)
20
             self.allow stretch= True
21
             self.keep rotio= False
22
23
```

```
class Popups(Popup):
   def init (self, title, txt, **kwargs):
        super(Popups, self). init (**kwargs)
        self.size hint= [None, None]
        self.size= [300, 140]
        self.pos hint= {'top':.7, 'center x':.5}
        self.title= title
        self.title size= '15sp'
        self.separator height= 5
        self.separator color= get color from hex('#FFFFFF')
        self.the container= FloatLayout(size hint=[1,1])
        self.warning= Label(text=txt.title(), font size='18sp', bold=True, size hint=[.9, .3],
                            pos hint={'center y':.6,'center x':.5})
        if title == 'Exit!':
            self.height= 180
            self.auto dismiss= False
            self.btn1= Button(text='cancel', size hint=[.4, .2], font_size='15sp',
                             pos hint={'top':.22, "x":.05}, background normal="", background color=[0,0,0,1])
            self.btn2= Button(text='yes', size hint=[.4, .2], font size='15sp',
                              pos_hint={'top':.22, "x": .55}, background normal="", background color=[0,0,0,1])
            self.btn1.bind(on release= lambda x: self.dismiss())
            self.btn2.bind(on release= lambda x: app.kill app())
            self.the container.add widget(self.btn1)
            self.the container.add widget(self.btn2)
        self.the container.add widget(self.warning)
        self.add widget(self.the container)
```

```
class ManagerSc(ScreenManager):
54
55
          pass
     class HomePage(Screen):
56
          pass
57
     class PlayPage(Screen):
58
59
          pass
60
```

```
class MainApp(App):
         clicked= ''
63
         clocks= 0
         opp= ""
         you=
         def build(self):
             Window.size=(360, 640)
             return Builder.load file('game.kv')
70
71
72
         def reset all(self):
             self.clicked= ''
73
             self.clocks= 0
74
             self.opp= ""
75
             self.you= ""
76
             self.root.ids.play.ids.opponent.source= 'imgs/empty.png'
77
             self.root.ids.play.ids.you.source= 'imgs/empty.png'
78
             self.root.ids.play.ids.score.text= 'score'
79
             self.root.ids.play.ids.score.szz= '45sp'
             self.root.ids.play.ids.score.clr= [0,0,0,.3]
81
82
```

```
def process(self, me, him):
              self.res= ""
85
              self.me= me
              self.him= him
              for i in range(3):
 87
                  if self.me == 'scissors' and self.him == 'scissors':
                      self.res= 'tie'
                  if self.me == 'scissors' and self.him == 'paper':
                      self.res= 'win'
 91
                  if self.me == 'scissors' and self.him == 'rock':
                      self.res= 'foe'
                  if self.me == 'paper' and self.him == 'scissors':
                      self.res= 'foe'
                  if self.me == 'paper' and self.him == 'paper':
                      self.res= 'tie'
                  if self.me == 'paper' and self.him == 'rock':
                      self.res= 'win'
                  if self.me == 'rock' and self.him == 'scissors':
100
                      self.res= 'win'
                  if self.me == 'rock' and self.him == 'paper':
                      self.res= 'foe'
103
                  if self.me == 'rock' and self.him == 'rock':
104
                      self.res= 'tie'
105
              return self.res
```

```
def animate_go_btn(self, target, what):
              if what == 1:
                  anime= an(sz=[.7, .06], clr=[1,0,0,.8], ps={'top':.08, 'x':.15},
110
                          d=0.1, c=[1,0,0,.8])
111
112
                  anime.start(target)
              elif what == 2:
113
                  animea= an(sz=[.9, .08], clr=[1,1,1,1], ps= {'top':.1, 'x':.05},
114
                          d=0.5, c=[0,0,0,1]
115
                  animea.start(target)
116
117
          def play(self):
118
119
              self.bomb= Clock.schedule interval(self.change img, 0.2)
120
          def change img(self, *args):
121
              self.clocks+= 1
122
              if self.clocks <= 20:
123
                  opponent= self.root.ids.play.ids.opponent
124
                  self.one= {1:'rocke.png', 2:'pepper.png', 3:'sis.png'}[randint(1,3)]
125
                  opponent.source= self.one
126
              else:
127
                  self.bomb.cancel()
128
                  if self.one == 'rocke.png':
129
                      self.opp= 'rock'
130
                  elif self.one == 'pepper.png':
131
                      self.opp= 'paper'
132
                  elif self.one == 'sis.png':
                      self.opp= 'scissors'
134
135
              self.get_res()
136
```

```
def get res(self):
138
              if self.you != '' and self.opp != '':
139
                  self.the_res= self.process(self.you, self.opp)
                  self.show res(self.the res)
142
              else: pass
          def show res(self, res, *args):
              self.board= self.root.ids.play.ids.score
              if res == 'win':
147
                  self.board.text= 'you won'.upper()
                  self.board.clr= [0,1,0,1]
                  self.board.szz= '60sp'
150
151
              elif res == 'foe':
152
                  self.board.text= 'you lost'.upper()
                  self.board.clr= [1,0,0,1]
154
                  self.board.szz= '60sp'
156
              elif res == 'tie':
                  self.board.text= 'a tie'.upper()
158
                  self.board.clr= [0,0,0,1]
159
                  self.board.szz= '60sp'
              self.you= ''
              self.opp= ''
              print(res)
```

```
def show_popup(self, why_popup):
165
              if why_popup == 'BtnUnclicked':
166
                  pop= Popups(title='little warning!',
167
                               txt='you should select one\nof the three options first...')
              elif why_popup == 'exit':
169
                  pop= Popups(title='Exit!',
170
171
                               txt='are you sure you want to exit?')
172
              pop.open()
173
174
          def kill_app(self):
175
              self.stop()
176
177
178
      if __name__ == '__main__':
179
          app= MainApp()
180
          app.run()
181
```

Game.ky

```
#:kivy 1.11.1
     #: import utils kivy.utils
     ManagerSc:
         id: screenmanager
         HomePage:
             id: home
         PlayPage:
             id: play
 9
10
     <Btn@Button>:
11
         background_norml:
12
         background_color: utils.get_color_from_hex('#FFB13B')
13
         background_down:
14
15
16
```

```
<HomePage>:
         name: 'home'
         FloatLayout:
             canvas.before:
                 Color:
21
22
                     rgba: utils.get_color_from_hex('#730000')
                 Rectangle:
                     size: self.size
                     pos: self.pos
                 Color:
                     rgba: utils.get_color_from_hex('#350505')
                 Triangle:
                     points: [0,root.size[1]*3/4, root.size[0],root.size[1]*3/4, root.size[0]/2,0]
                 Color:
                     rgba: utils.get_color_from_hex('#350505')
                 Rectangle:
                     size: root.size[0], root.size[1]/4
                     pos: 0, root.size[1]*3/4
                 Color:
                     rgba: utils.get_color_from_hex('#730000')
                 Rectangle:
                     size: root.size[0]*3/4, root.size[1]/7
                     pos: root.size[0]/8, (root.size[1]*3/4)+(root.size[1]/14)
```

```
Label:
                 # this is a comment
41
                 size hint: None, None
42
                 pos_hint: {'center_x':.5, 'top':.98}
43
                 size: self.texture_size
44
                 font_size: "95sp"
45
                 bold: True
                 color: [0,0,0,1]
                 text: 'R[color=#350505].[/color]P[color=#350505].[/color]S'
48
                 markup: True
49
             Label:
50
                 text: '[b]R[/b]ock, [b]P[/b]aper, [b]S[/b]cissors'
51
                 size_hint: None, None
52
                 size: self.texture_size
53
                 pos_hint: {'top':.82, 'center_x':.5+.01}
54
                 font_size: '25sp'
55
                 markup: True
56
                 color: utils.get_color_from_hex('#730000')
57
```

```
Btn:
                 text: 'start the game'.title()
                 font size: '35sp'
                 bold: True
                 color: [0,0,0,1]
62
                 size hint: .8, .1
                 pos_hint: {'top':.46, 'x':.1}
64
                 on_press:
                     self.background color= utils.get color from hex('#730000')
                 on release:
                     self.background_color= utils.get_color_from_hex('#FFB13B')
                     app.root.current='play'
                     root.manager.transition.duration= 1
70
71
                     root.manager.transition.direction= 'up'
72
             Btn:
                 text: 'exit the game'.title()
75
                 font size: '35sp'
                 bold: True
76
                 color: [0,0,0,1]
                 size hint: .8, .1
78
                 pos_hint: {'top':.16, 'x':.1}
79
                 on press:
                     self.background color= utils.get color from hex('#730000')
                 on release:
82
                     self.background color= utils.get color from hex('#FFB13B')
                     app.show popup('exit')
84
```

```
<PlayPage>:
    id: play
    opponent: opponent
    name: 'play'
   FloatLayout:
        opponent: opponent
        canvas.before:
            Color:
                rgba: utils.get_color_from_hex('#730000')
           Rectangle:
                size: self.size
                pos: self.pos
            Color:
                rgba: utils.get_color_from_hex('#FFFFFF')
           Rectangle:
                size: root.size[0], root.size[1]/5
                pos: 0, root.size[1]*5.8/8
            Color:
                rgba: utils.get_color_from_hex("#000000")
            Line:
                points: [(0,root.size[1]*5.8/8), (root.size[0],root.size[1]*5.8/8)]
                width: 5
            Color:
                rgba: utils.get_color_from_hex("#000000")
            Line:
                points: [(0,(root.size[1]*(5.8/8))+root.size[1]/5), (root.size[0],(root.size[1]*(5.8/8))+root.size[1]/5)]
                width: 5
            Color:
                rgba: utils.get_color_from_hex("#000000")
            Line:
                points: [(root.size[0]/2,(root.size[1]*(5.8/8))), (root.size[0]/2,(root.size[1]*(2.7/8)))]
                width: 3
            Color:
                rgba: utils.get_color_from_hex("#000000")
            Line:
                points: [(0,(root.size[1]*(2.7/8))), (root.size[0],(root.size[1]*(2.7/8)))]
                width: 3
```

```
Label:
123
                  id: score
124
125
                  clr: [0,0,0,.3]
126
                  szz: '45sp'
                  text: "the score"
127
                  size_hint: None, None
128
                  size: self.texture_size
129
                  color: self.clr
130
131
                  font size: self.szz
                  pos_hint: {'center_x':.5, "top":.88}
132
                  bold: True
133
134
135
              Button:
                  text: 'Go Back'
136
137
                  color: [0,0,0,1]
                  size hint: .15, .05
138
                  pos hint: {'x':.03, 'top':.99}
139
                  background_normal: '
                  background down: ''
                  background color: utils.get color from hex('#730000')
142
                  bold: True
                  underline: True
                  on_press:
                      self.color= utils.get_color_from_hex('#FFB13B')
                      score.clr= [0,0,0,.3]
                      score.szz= '45sp'
                      score.text= 'the score'
                  on release:
150
151
                      self.color= utils.get color from hex('#000000')
                      app.root.current='home'
152
                      root.manager.transition.duration= 1
153
                      root.manager.transition.direction= 'down'
154
                      app.reset_all()
155
```

```
Button:
157
                  clr: [1,1,1,1]
158
                  sz: [.9, .08]
159
                  ps: {'top':.1, 'x':.05}
                  c: [0,0,0,1]
                  text: 'GO'
162
                  font_size: '30sp'
                  bold: True
                  color: self.c
165
                  background_normal: ''
                  background_down: ''
167
                  background_color: self.clr
                  size_hint: self.sz
                  pos_hint: self.ps
170
171
                  on_press:
172
                      app.animate_go_btn(self, 1)
                  on_release:
173
                      app.animate_go_btn(self, 2)
174
                      app.play() if app.clicked == 'yes' else app.show_popup('BtnUnclicked')
175
                      app.clocks=0
176
177
```

```
BoxLayout:
178
                  orientation: 'horizontal'
179
                  size hint: 1, .38
                  pos_hint: {'top':.72}
                  padding: 10
182
                  spacing: 20
                  BoxLayout:
                      orientation: 'vertical'
                      Label:
                           text: 'you'
                           font_size: '30sp'
                           size_hint_y: None
                           height: self.texture_size[1]
                           bold: True
                       Image:
                           id: you
                           source: "ไม่มือ.png"
194
                           allow_stretch: True
                           keep rotio: False
                  BoxLayout:
                      orientation: 'vertical'
                      Label:
                           text: 'opponent'
                           font size: '30sp'
                           size_hint_y: None
                           height: self.texture size[1]
                           bold: True
204
                       Image:
                           id: opponent
                           source: "ไม่มือ.png"
                           allow_stretch: True
                           keep_rotio: False
```

```
210
              BoxLayout:
                  orientation: 'vertical'
211
212
                  size hint: 1, .19
                  pos_hint: {'top': .34}
213
214
                  spacing: 5
                  padding: 10
215
                  Label:
216
217
                       text: 'select your option:'
                       font size: '20sp'
218
                       size hint: None, None
219
                       size: self.texture_size
220
                      color: [1,1,1,1]
221
                      bold: True
222
223
                  BoxLayout:
                      orientation: 'horizontal'
224
                       spacing: 5
225
226
                       ImageBtn:
227
                           source: 'rocke.png'
228
                           on press:
                               ro.color= [1,0,0,1]
229
                           on release:
230
                               ro.color= [1,1,1,1]
231
                               you.source= 'rocke.png'
232
                               app.clicked= 'yes'
233
                               app.you= 'rock'
234
```

```
235
                       ImageBtn:
236
                           source: 'sis.png'
237
                           on_press:
                               so.color= [1,0,0,1]
238
                           on_release:
239
                               so.color= [1,1,1,1]
240
                               you.source= 'sis.png'
241
                               app.clicked= 'yes'
242
                               app.you= 'scissors'
243
244
                       ImageBtn:
                           source: 'pepper.png'
245
246
                           on_press:
                               po.color= [1,0,0,1]
247
                           on_release:
248
                               po.color= [1,1,1,1]
249
                               you.source= 'pepper.png'
250
                               app.clicked= 'yes'
251
                               app.you= 'paper'
252
```

```
BoxLayout:
                  orientation: 'horizontal'
254
                  spacing: 5
255
256
                  padding: 10
                  size_hint: 1, .1
257
                  pos_hint: {"top":.2}
258
                  Label:
259
                      id: ro
                      text: 'Rock'
                      bold: True
                      font_size: '18sp'
                      size_hint_y: None
                      height: self.texture_size[1]
                  Label:
                      id: so
                      text: 'Scissors'
                      bold: True
                      font_size: '18sp'
270
                      size_hint_y: None
271
272
                      height: self.texture_size[1]
                  Label:
                      id: po
275
                      text: 'Paper'
276
                      bold: True
                      font_size: '18sp'
277
                      size hint y: None
278
                      height: self.texture_size[1]
279
```