```
from browser import timer
global running
global runtimer
runtimer = True
running = False
delay = int(random.randint(40, 100))
begining = True
modeRJ = False
cardWidth = 75
cardHeight = 120
xMid = get width() / 2
yMid = get_height() / 2
cW = cardWidth / 2
cH = cardHeight / 2
cardDelay = 1000
compCardH = 0
cardSlot1H = (get height() - cardHeight)
cardSlot1 = (0 + 2.25 + 15)
cardSlot2 = (0 + (cardWidth + 2.25) + (15*2))
cardSlot3 = (0 + (cardWidth * 2 + 2.25) + (15*3))
cardSlot4 = (0 + (cardWidth * 3 + 2.25) + (15*4))
def stop timer():
        win()
```

```
def randomColor():
def spoonChecker(c1, c2, c3, c4): # the math for checking if all your
           spoonRJ()
   values = ["2", "3", "4", "5", "6", "7", "8", "9", "10", "Jack",
   random.shuffle(values)
   return values[0]
   values.pop(0)
   if len(values) == 0:
```

```
def refreshCard(card):
   refresh = True
       computerCard(cardSlot3, refresh)
        computerCard(cardSlot4, refresh)
def computerHand():
   cCard2 = deck()
   cCard4 = deck()
   cHand.append(cCard1)
   cHand.append(cCard2)
   cHand.append(cCard3)
   cHand.append(cCard4)
def playerHand():
   global pHand
   hCard1 = deck()
   hCard2 = deck()
   hCard3 = deck()
   pHand.append(hCard1)
   pHand.append(hCard2)
   pHand.append(hCard3)
   pHand.append(hCard4)
def displayCard(card, slot, color): #Takes players hand and displays it
        return card2(slot, color)
       return card3(slot, color)
```

```
elif card == "5":
       return card5(slot, color)
       return card6(slot, color)
       return card8(slot, color)
       return card9(slot, color)
       return card10(slot, color)
       return jack(slot, color)
       return king(slot, color)
def computerChangeCard(cardNum):
       refreshCard(2)
       spoonChecker(cHand[0], cHand[1], cHand[2], cHand[3])
   elif cardNum == cHand[2]:
       spoonChecker(cHand[0], cHand[1], cHand[2], cHand[3])
       deck3 = deck()
       refreshCard(3)
       spoonChecker(cHand[0], cHand[1], cHand[2], cHand[3])
def changeCard(x, y):
```

```
if running == True:
              if x > cardSlot1 and x < cardSlot2:
                  displayCard(deck0, cardSlot1, randomColor())
                  spoonChecker(pHand[0], pHand[1], pHand[2], pHand[3])
                  displayCard(deck1, cardSlot2, randomColor())
                  spoonChecker(pHand[0], pHand[1], pHand[2], pHand[3])
                  deck2 = deck()
                  displayCard(deck2, cardSlot3, randomColor())
                  spoonChecker(pHand[0], pHand[1], pHand[2], pHand[3])
                  deck3 = deck()
                  displayCard(deck3, cardSlot4, randomColor())
                  pHand[3] = deck3
                  spoonChecker(pHand[0], pHand[1], pHand[2], pHand[3])
\mathtt{def} \mathtt{cardlogic} \mathtt{(c1,\ c2,\ c3,\ c4)}: \# \mathtt{this} \mathtt{logic} \mathtt{is} \mathtt{if}/\mathtt{which} \mathtt{the} \mathtt{card} \mathtt{should} \mathtt{be}
             if c3 == c4:
```

```
def run():
   global runtimer
       runtimer = False
       computerPlay()
def runTimer():
       timeout id = timer.set timeout(run, cardDelay) # Each 1,000 = 1
   runTimer()
def computerPlay():
        if runtimer == False:
           result = cardlogic(cHand[0], cHand[1], cHand[2], cHand[3])
                computerChangeCard(cHand[1])
                playAgain()
                computerChangeCard(cHand[2])
                computerChangeCard(cHand[3])
                playAgain()
```

```
def spades(x, y):
def spades(x, y):
   if remove == False:
       scircle = Circle(25)
       scircle.set position(xMid - 45, yMid)
       add(scircle)
       add(srect)
       add_mouse_click_handler(pressSpoon)
def spoonRJ():
   if remove == False:
       scircle = Circle(25)
       add(scircle)
       srect.set position(sxMid - 45, syMid - 9)
       add(srect)
```

```
add mouse click handler(pressRJSpoon)
def card2(slot, color):
   add(outline)
   rect2.set position(slot, cardSlot1H)
   rect2.set color(Color.white)
   add(rect2)
   txt2.set position(slot + 25, cardSlot1H + 60)
       txt2.set color(Color.red)
   add(txt2)
def card3(slot, color):
   outline = Rectangle(cardWidth + 5, cardHeight + 5)
   outline.set position(slot - 2.25, cardSlot1H - 2.25)
   outline.set color(Color.black)
   add(outline)
   rect3 = Rectangle(cardWidth, cardHeight)
   rect3.set color(Color.white)
   add(rect3)
   txt3 = Text("3")
   txt3.set position(slot + 25, cardSlot1H + 60)
   add(txt3)
```

```
outline = Rectangle(cardWidth + 5, cardHeight + 5)
   outline.set color(Color.black)
   add(outline)
   rect4.set position(slot, cardSlot1H)
   rect4.set color(Color.white)
   add(rect4)
       txt4.set color(Color.red)
        txt4.set color(Color.black)
   add(txt4)
   outline = Rectangle(cardWidth + 5, cardHeight + 5)
   outline.set position(slot - 2.25, cardSlot1H - 2.25)
   add(outline)
   rect5 = Rectangle(cardWidth, cardHeight)
   rect5.set color(Color.white)
   add(rect5)
   txt5.set position(slot + 25, cardSlot1H + 60)
        txt5.set color(Color.black)
   add(txt5)
def card6(slot, color):
   outline.set position(slot - 2.25, cardSlot1H - 2.25)
   add(outline)
   rect6.set_position(slot, cardSlot1H)
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rect6.set_color(Color.white)
   add(rect6)
   if "r" in color:
   add(txt6)
def card7(slot, color):
   outline.set color(Color.black)
   add(outline)
   rect7.set position(slot, cardSlot1H)
   add(rect7)
   add(txt7)
def card8(slot, color):
   outline.set position(slot - 2.25, cardSlot1H - 2.25)
   outline.set color(Color.black)
   add(outline)
   add(rect8)
   txt8.set_position(slot + 25, cardSlot1H + 60)
   if "r" in color:
```

```
else:
        txt8.set color(Color.black)
   add(txt8)
def card9(slot, color):
   add(outline)
   rect9.set position(slot, cardSlot1H)
   rect9.set color(Color.white)
   add(rect9)
   if "r" in color:
   add(txt9)
def card10(slot, color):
   outline.set color(Color.black)
   add(outline)
   rect10.set position(slot, cardSlot1H)
   add(rect10)
   add(txt10)
```

```
outline.set position(slot - 2.25, cardSlot1H - 2.25)
   add(outline)
   add(rectJ)
   txtJ.set_position(slot + 25, cardSlot1H + 60)
   if "r" in color:
       txtJ.set color(Color.black)
def queen(slot, color):
   add(outline)
   rectQ.set position(slot, cardSlot1H)
   add(rectQ)
       txtQ.set color(Color.red)
        txtQ.set color(Color.black)
   add(txtQ)
def king(slot, color):
   outline.set position(slot - 2.25, cardSlot1H - 2.25)
   outline.set color(Color.black)
   add(outline)
```

```
add(rectK)
   txtK.set position(slot + 25, cardSlot1H + 60)
       txtK.set color(Color.red)
        txtK.set color(Color.black)
   add(txtK)
def ace(slot, color):
   outline.set color(Color.black)
   add(outline)
   rectA.set position(slot, cardSlot1H)
   add(rectA)
   txtA.set position(slot + 25, cardSlot1H + 60)
   if "r" in color:
        txtA.set color(Color.black)
   add(txtA)
def computerCard(slot, refresh):
   outline.set position(slot - 2.25, compCardH - 2.25)
   outline.set color(Color.black)
   add(outline)
   rectA.set_position(slot, compCardH)
   add(rectA)
   crossline = Line(slot, compCardH, slot + cardWidth, compCardH +
cardHeight)
   add(crossline)
```

```
for i in range(random.randint(1, cardWidth)):
        crossline = Line(slot + (i+1), compCardH, slot + cardWidth,
compCardH + cardHeight)
       add(crossline)
def loss():
   global remove
       remove = True
       txtL.set position(xMid - 200, yMid)
   global remove
       add(txtL)
def gamemode(done):
txtH, Ioutline, Irect, txtI, RJoutline, RJrect, RJtxt
       Eoutline.set_position(10 - 2.5, yMid - (cardWidth / 2) - 2.5)
       add(Eoutline)
       Erect = Rectangle(cardHeight, cardWidth)
```

```
Erect.set position(10, yMid - cardWidth / 2)
add(Erect)
add(txtE)
Moutline = Rectangle(cardHeight + 5, cardWidth + 5)
Moutline.set position((20 - 2.5) + cardHeight, yMid - (cardWidth /
Moutline.set color(Color.black)
add(Moutline)
Mrect = Rectangle(cardHeight, cardWidth)
Mrect.set position((20) + cardHeight, yMid - cardWidth / 2)
Mrect.set color(Color.yellow)
add(Mrect)
txtM.set position((20 - 2.5) + cardHeight + 2.5, yMid + 12.5)
txtM.set color(Color.black)
add(txtM)
Houtline.set position((20 - 2.5) + (cardHeight * 2) + 10, yMid -
add(Houtline)
Hrect = Rectangle(cardHeight, cardWidth)
add(Hrect)
txtH.set position((20 - 2.5) + (cardHeight * 2) + 25 + 10, yMid +
txtH.set color(Color.black)
add(txtH)
```

```
Ioutline.set position(10 - 2.5, (yMid - 2.5) + cardWidth - 25)
Ioutline.set color(Color.black)
add(Ioutline)
Irect.set color(Color.purple)
add(Irect)
txtI = Text("IMPOSSIBLE")
txtI.set position((xMid - 100), yMid + 22.5 + cardWidth)
add(txtI)
RJoutline = Rectangle(cardHeight + 5, cardWidth + 5)
RJoutline.set position(10,10)
add(RJoutline)
RJrect.set color('#00A67E')
add(RJrect)
RJtxt = Text("RJ")
RJtxt.set position(cardWidth - 25, cardHeight / 2)
add(RJtxt)
remove(Eoutline)
remove (Erect)
remove (Moutline)
remove (Mrect)
remove(txtM)
remove(Houtline)
```

```
remove (Hrect)
       remove(txtH)
       remove(Ioutline)
       remove(Irect)
       remove(txtI)
       remove(RJoutline)
       remove (RJrect)
       remove(RJtxt)
       play()
def rounds():
   if spoonChecker(cHand[0], cHand[1], cHand[2], cHand[3]) == False and
spoonChecker(pHand[0], pHand[1], pHand[2], pHand[3]) == False:
       displayCard(pHand[0], cardSlot1, randomColor())
       displayCard(pHand[1], cardSlot2, randomColor())
       displayCard(pHand[2], cardSlot3, randomColor())
       displayCard(pHand[3], cardSlot4, randomColor())
   if (y > (210)) and (y < (260)):
       if (x > (syMid - 135)) and (x < (syMid +135)):
def testPress(x, y):
```

```
print(str(x), str(y))
def testSquare():
   trect = Circle(5)
   t2rect = Circle(5)
   t2rect.set_position(xMid - 65, yMid + 25)
   add(t2rect)
   t3rect = Circle(5)
   t3rect.set_position(xMid + 65, yMid - 25)
   t4rect = Circle(5)
   t4rect.set_position(xMid + 65, yMid + 25)
   add(t4rect)
def play():
   global remove
   remove = False
   add_mouse_click_handler(changeCard)
   playerHand()
   computerHand()
   rounds()
   runTimer()
   computerCard(cardSlot1, False)
   computerCard(cardSlot2, False)
   computerCard(cardSlot3, False)
   computerCard(cardSlot4, False)
```

```
def removeGame(): # removes the game selector menu
   global Eoutline
   remove(Eoutline)
   remove (Erect)
   remove(Moutline)
   remove (Mrect)
   remove(txtM)
   remove(Houtline)
   remove(Hrect)
   play()
def selector(x, y):
   global cardDelay, begining, delay, modeRJ
   if begining == True:
               begining = False
                delay = int(random.randint(500, 1000))
               gamemode("yes")
           elif x > 140 and x < 260:
```

```
cardDelay = 500
                gamemode("yes")
               gamemode("yes")
           begining = False
           delay = int(random.randint(0, 100))
               cardDelay = 50
gamemode("no")
add mouse click handler(selector)
```