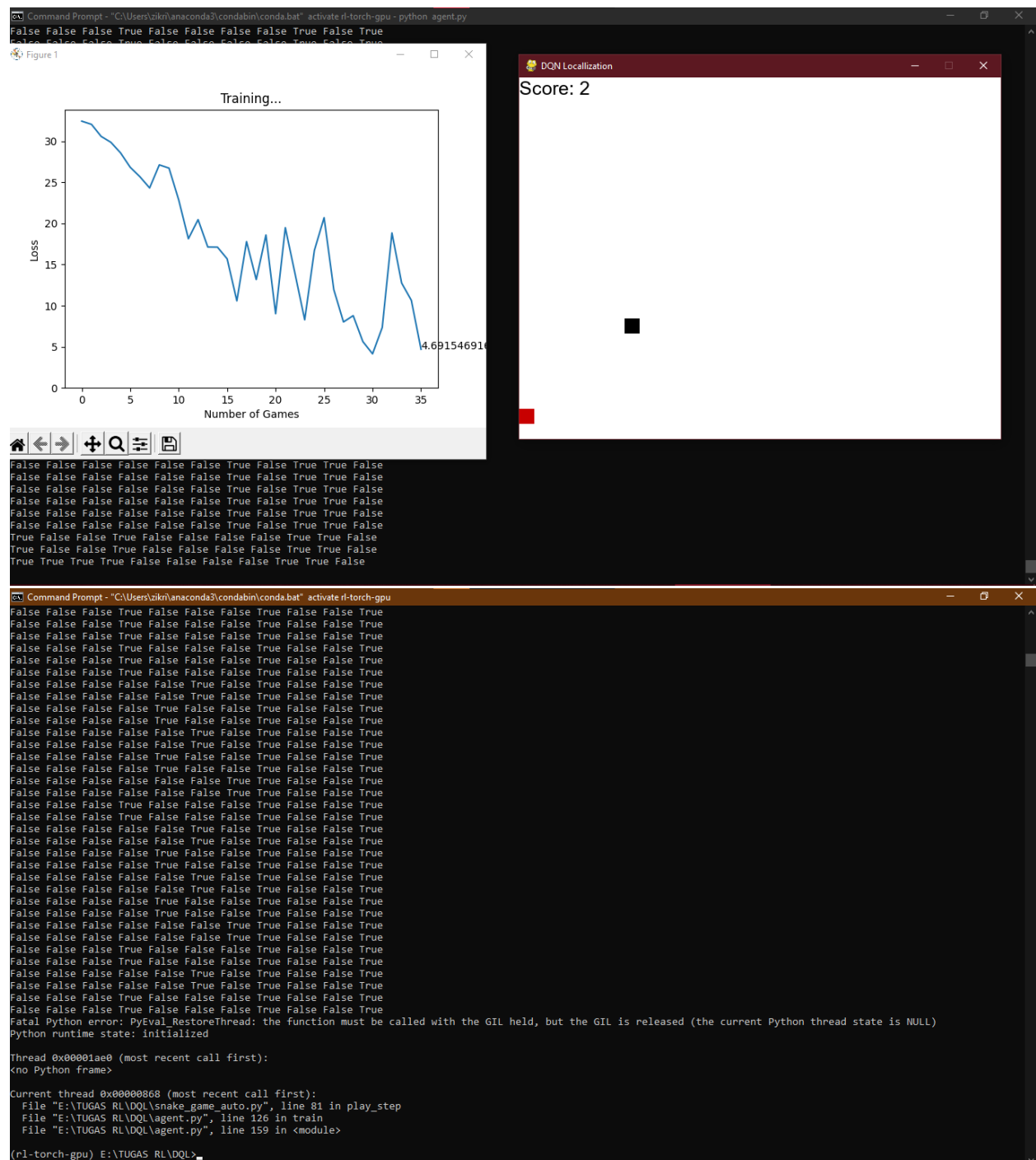


DQL

Installed Library dan dependencies = `pip install -r requirements.txt`

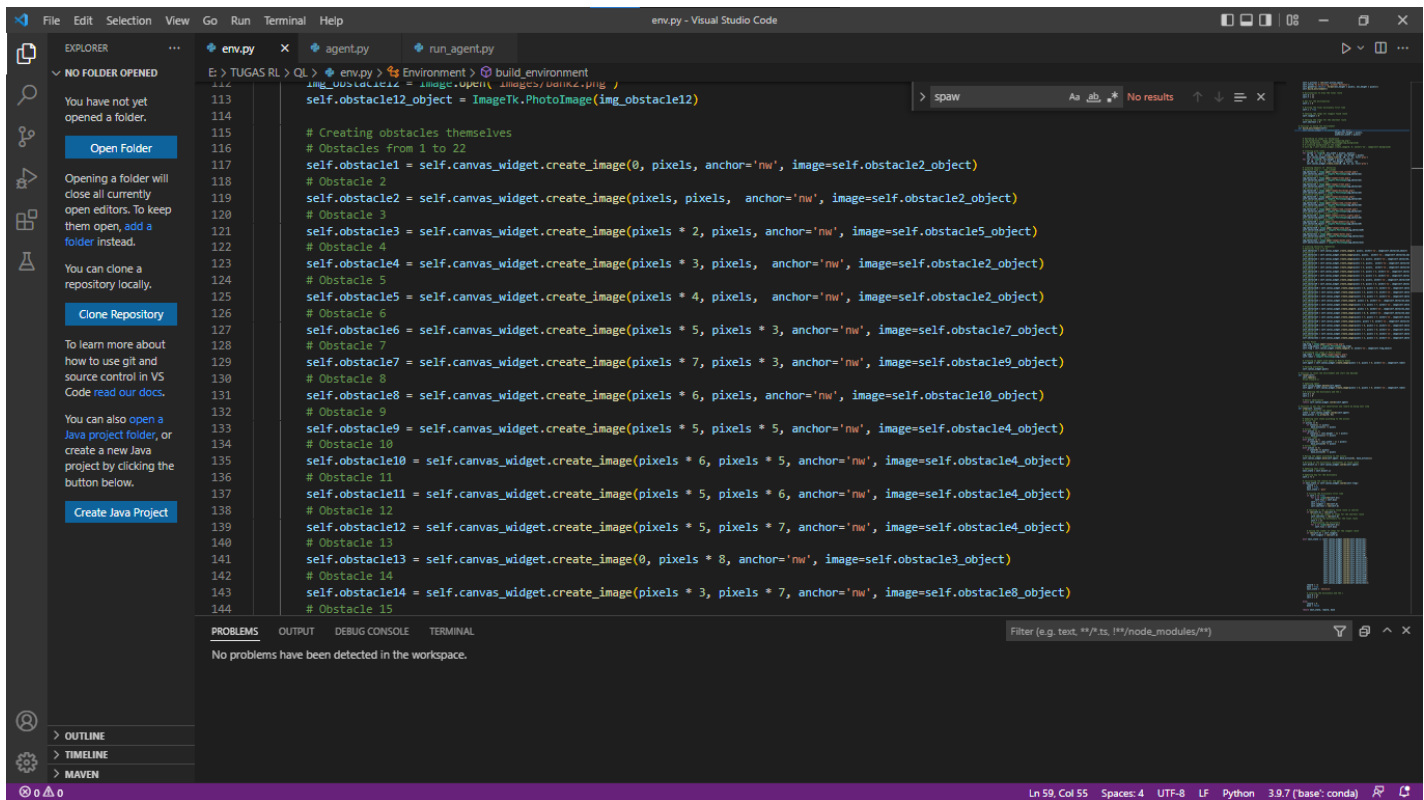
atau instal manual seperti, pandas matplotlib, pip instal torch, pygame dan IPython

dari yang saya simpulkan bahwa memori saya tidak cukup kuat menjalankan perulangan sampe berkali-kali dan membuat hasil run berhenti sendiri.

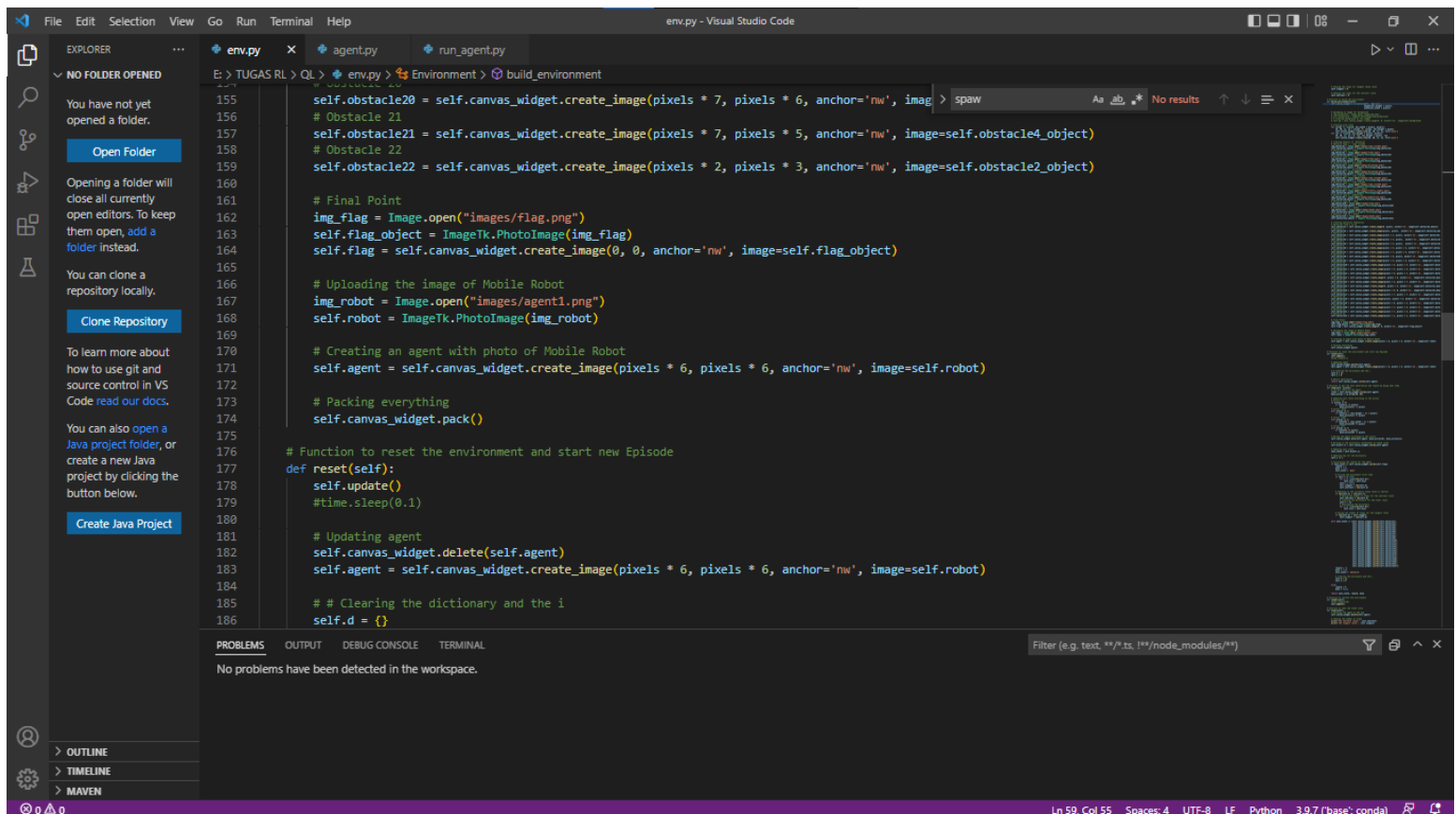


QL

Saya telah merubah tampilan environmentnya dan titik start serta gaols/flag



```
114 self.obstacle12_object = ImageTk.PhotoImage(img_obstacle12)
115
116 # Creating obstacles themselves
117 # Obstacles from 1 to 22
118 self.obstacle1 = self.canvas_widget.create_image(0, pixels, anchor='nw', image=self.obstacle2_object)
119 # Obstacle 2
120 self.obstacle2 = self.canvas_widget.create_image(pixels, pixels, anchor='nw', image=self.obstacle2_object)
121 # Obstacle 3
122 self.obstacle3 = self.canvas_widget.create_image(pixels * 2, pixels, anchor='nw', image=self.obstacle5_object)
123 # Obstacle 4
124 self.obstacle4 = self.canvas_widget.create_image(pixels * 3, pixels, anchor='nw', image=self.obstacle2_object)
125 # Obstacle 5
126 self.obstacle5 = self.canvas_widget.create_image(pixels * 4, pixels, anchor='nw', image=self.obstacle2_object)
127 # Obstacle 6
128 self.obstacle6 = self.canvas_widget.create_image(pixels * 5, pixels * 3, anchor='nw', image=self.obstacle7_object)
129 # Obstacle 7
130 self.obstacle7 = self.canvas_widget.create_image(pixels * 7, pixels * 3, anchor='nw', image=self.obstacle9_object)
131 # Obstacle 8
132 self.obstacle8 = self.canvas_widget.create_image(pixels * 6, pixels, anchor='nw', image=self.obstacle10_object)
133 # Obstacle 9
134 self.obstacle9 = self.canvas_widget.create_image(pixels * 5, pixels * 5, anchor='nw', image=self.obstacle4_object)
135 # Obstacle 10
136 self.obstacle10 = self.canvas_widget.create_image(pixels * 6, pixels * 5, anchor='nw', image=self.obstacle4_object)
137 # Obstacle 11
138 self.obstacle11 = self.canvas_widget.create_image(pixels * 5, pixels * 6, anchor='nw', image=self.obstacle4_object)
139 # Obstacle 12
140 self.obstacle12 = self.canvas_widget.create_image(pixels * 5, pixels * 7, anchor='nw', image=self.obstacle4_object)
141 # Obstacle 13
142 self.obstacle13 = self.canvas_widget.create_image(0, pixels * 8, anchor='nw', image=self.obstacle3_object)
143 # Obstacle 14
144 self.obstacle14 = self.canvas_widget.create_image(pixels * 3, pixels * 7, anchor='nw', image=self.obstacle8_object)
145 # Obstacle 15
```



```
155 self.obstacle20 = self.canvas_widget.create_image(pixels * 7, pixels * 6, anchor='nw', image=self.obstacle4_object)
156 # Obstacle 21
157 self.obstacle21 = self.canvas_widget.create_image(pixels * 7, pixels * 5, anchor='nw', image=self.obstacle4_object)
158 # Obstacle 22
159 self.obstacle22 = self.canvas_widget.create_image(pixels * 2, pixels * 3, anchor='nw', image=self.obstacle2_object)
160
161 # Final Point
162 img_flag = Image.open("images/flag.png")
163 self.flag_object = ImageTk.PhotoImage(img_flag)
164 self.flag = self.canvas_widget.create_image(0, 0, anchor='nw', image=self.flag_object)
165
166 # Uploading the image of Mobile Robot
167 img_robot = Image.open("images/agent1.png")
168 self.robot = ImageTk.PhotoImage(img_robot)
169
170 # Creating an agent with photo of Mobile Robot
171 self.agent = self.canvas_widget.create_image(pixels * 6, pixels * 6, anchor='nw', image=self.robot)
172
173 # Packing everything
174 self.canvas_widget.pack()
175
176 # Function to reset the environment and start new Episode
177 def reset(self):
178     self.update()
179     #time.sleep(0.1)
180
181 # Updating agent
182 self.canvas_widget.delete(self.agent)
183 self.agent = self.canvas_widget.create_image(pixels * 6, pixels * 6, anchor='nw', image=self.robot)
184
185 # Clearing the dictionary and the i
186 self.d = {}
```

