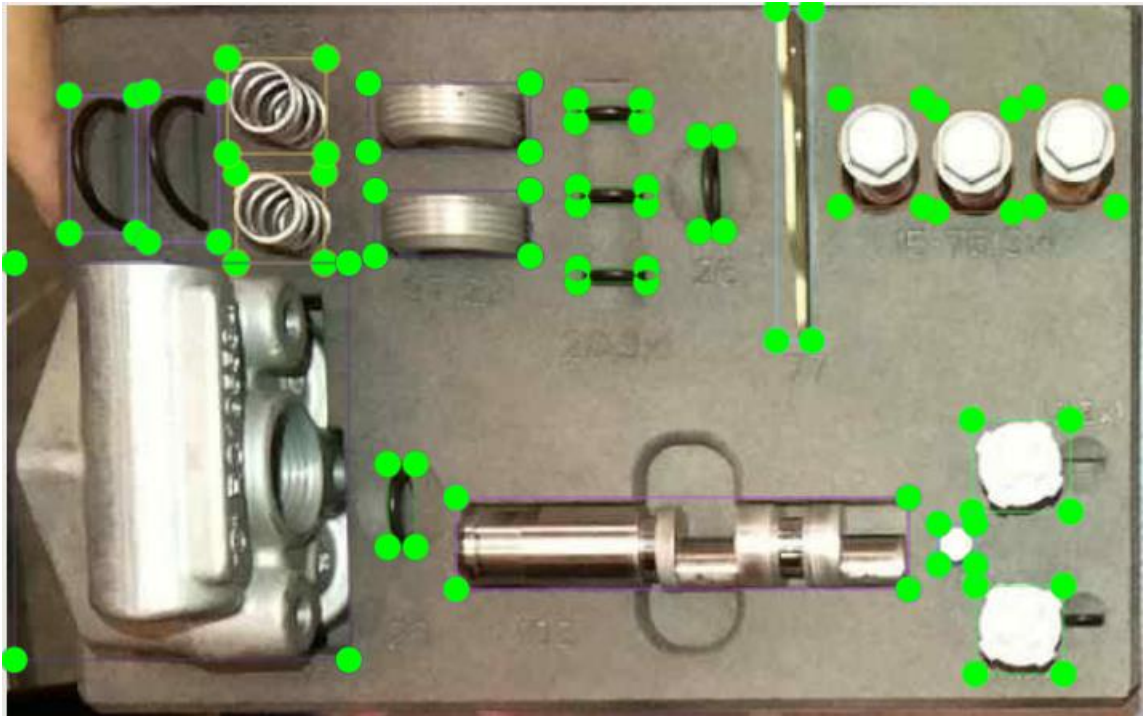


# Output

## Annotation:



## Json file for that image:

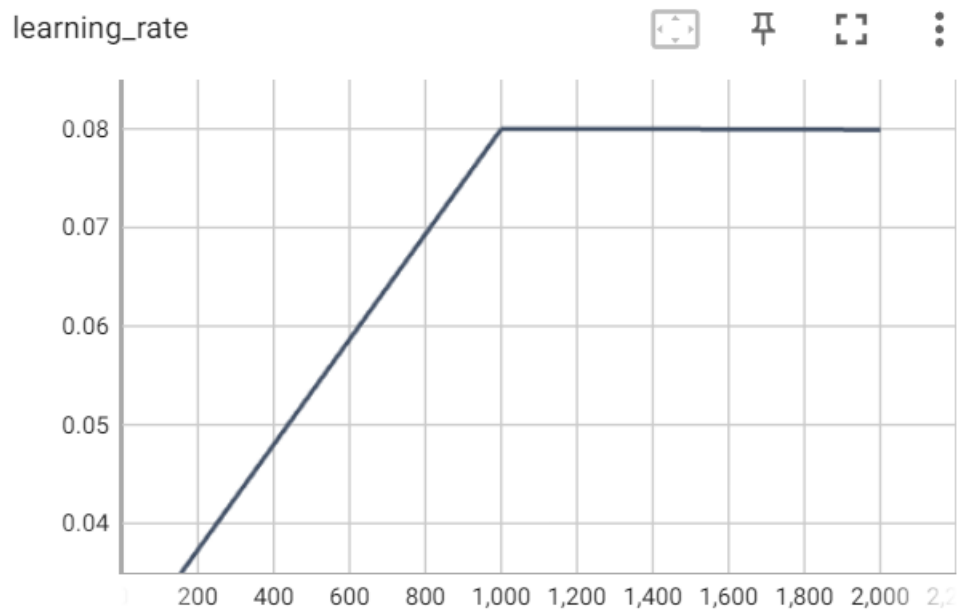
```
<annotation>
<folder>collectedimages</folder>
<filename>2022-03-11-11-3A25-3A55-807790_jpg.rf.8ebb853cb0fa7407fbe9b17f41178422.jpg</filename>
<path>C:\Users\muham\Documents\GitHub\Object detection\TFODCourse\Tensorflow\workspace\images\collectedimages\2022-03-11-11-3A25-3A55-807790_jpg.rf.8ebb853cb0fa7407fbe9b17f41178422.jpg</path>
<source>
<database>Unknown</database>
</source>
<size>
<width>1080</width>
<height>720</height>
<depth>3</depth>
</size>
<segmented>0</segmented>
<object>
```

```
<name>Ring</name>
<pose>Unspecified</pose>
<truncated>0</truncated>
<difficult>0</difficult>
<bndbox>
<xmin>77</xmin>
<ymin>50</ymin>
<xmax>120</xmax>
<ymax>132</ymax>
</bndbox>
</object>
<object>
<name>Spring</name>
<pose>Unspecified</pose>
<truncated>0</truncated>
<difficult>0</difficult>
<bndbox>
<xmin>127</xmin>
<ymin>93</ymin>
<xmax>187</xmax>
<ymax>143</ymax>
</bndbox>
</object>
<object>
<name>Bearing</name>
<pose>Unspecified</pose>
<truncated>0</truncated>
<difficult>0</difficult>
<bndbox>
<xmin>207</xmin>
<ymin>41</ymin>
<xmax>296</xmax>
<ymax>85</ymax>
</bndbox>
</object>
<object>
<name>Hook</name>
<pose>Unspecified</pose>
<truncated>0</truncated>
<difficult>0</difficult>
<bndbox>
<xmin>253</xmin>
<ymin>278</ymin>
<xmax>514</xmax>
<ymax>334</ymax>
</bndbox>
</object>
<object>
<name>Coil</name>
<pose>Unspecified</pose>
<truncated>1</truncated>
<difficult>0</difficult>
<bndbox>
<xmin>435</xmin>
<ymin>1</ymin>
<xmax>459</xmax>
<ymax>190</ymax>
```

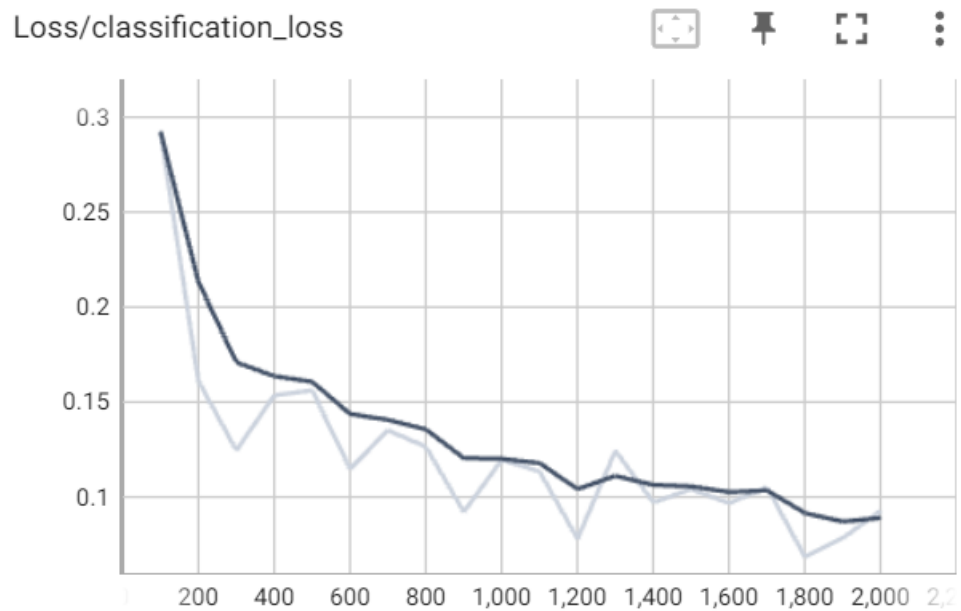
```
</bndbox>
</object>
<object>
<name>SmallRing</name>
<pose>Unspecified</pose>
<truncated>0</truncated>
<difficult>0</difficult>
<bndbox>
<xmin>392</xmin>
<ymin>77</ymin>
<xmax>410</xmax>
<ymax>131</ymax>
</bndbox>
</object>
<object>
<name>Piston</name>
<pose>Unspecified</pose>
<truncated>0</truncated>
<difficult>0</difficult>
<bndbox>
<xmin>5</xmin>
<ymin>143</ymin>
<xmax>200</xmax>
<ymax>376</ymax>
</bndbox>
</object>
<object>
<name>RoundedScrew</name>
<pose>Unspecified</pose>
<truncated>0</truncated>
<difficult>0</difficult>
<bndbox>
<xmin>471</xmin>
<ymin>54</ymin>
<xmax>520</xmax>
<ymax>117</ymax>
</bndbox>
</object>
<object>
<name>Screw</name>
<pose>Unspecified</pose>
<truncated>0</truncated>
<difficult>0</difficult>
<bndbox>
<xmin>550</xmin>
<ymin>327</ymin>
<xmax>601</xmax>
<ymax>378</ymax>
</bndbox>
</object>
</annotation>
```

## Object detection:

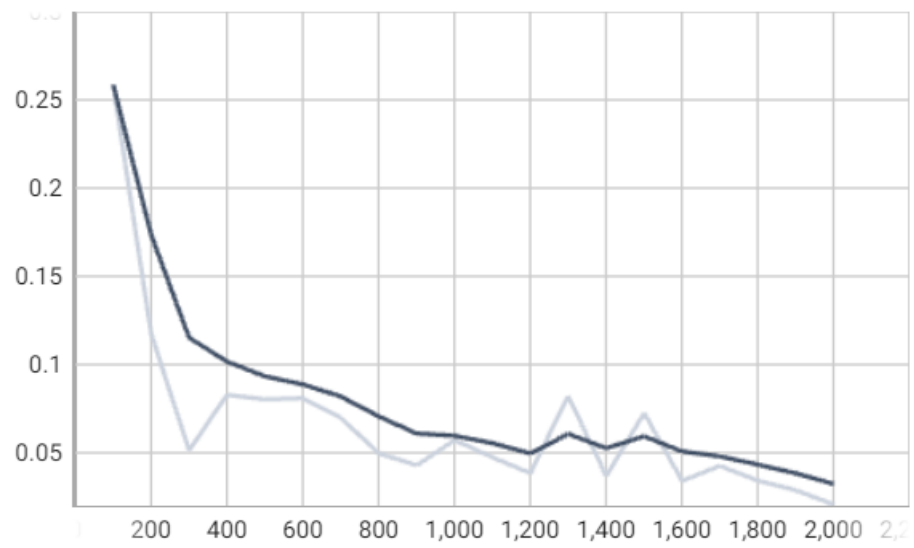
Learning rate:



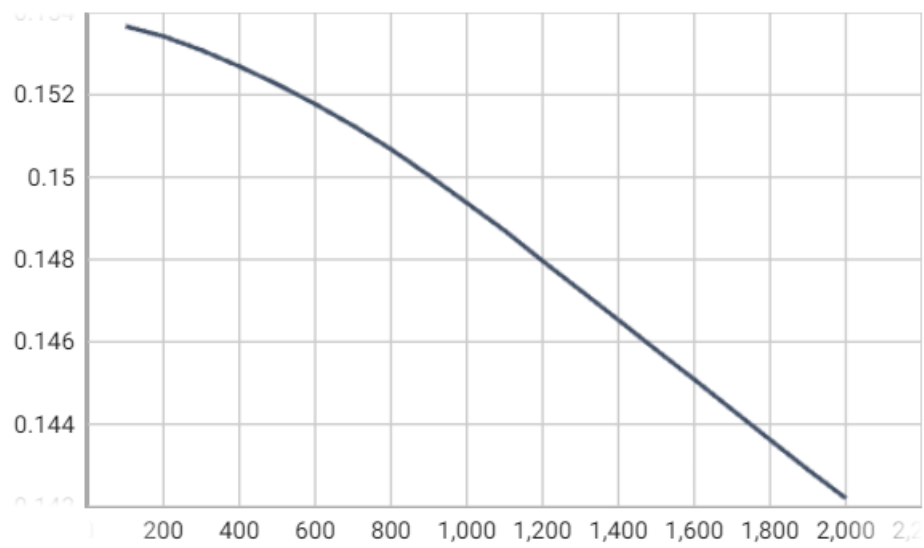
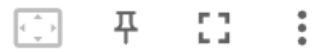
Loss in the model:



Loss/localization\_loss



Loss/regularization\_loss



Below is the some images detected by the model:

