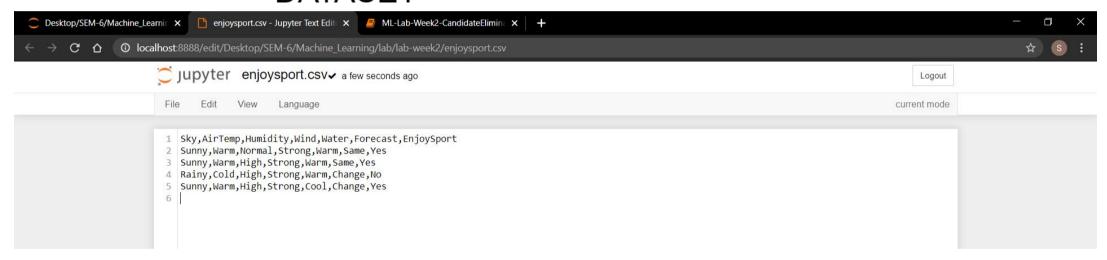
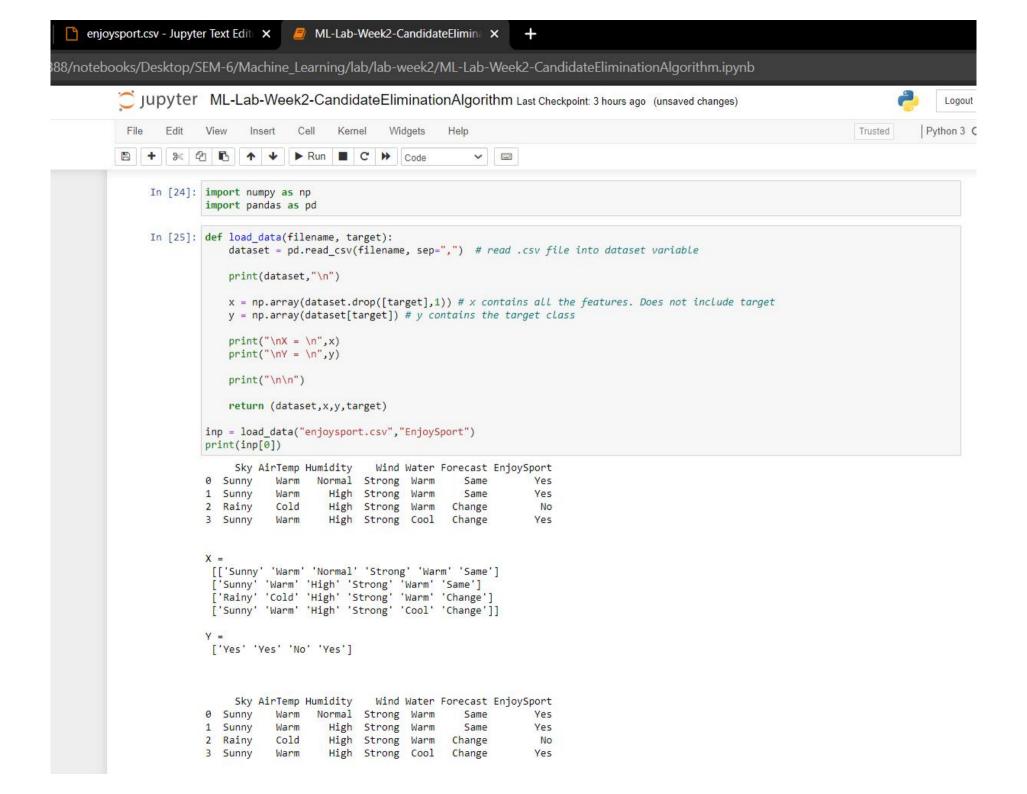
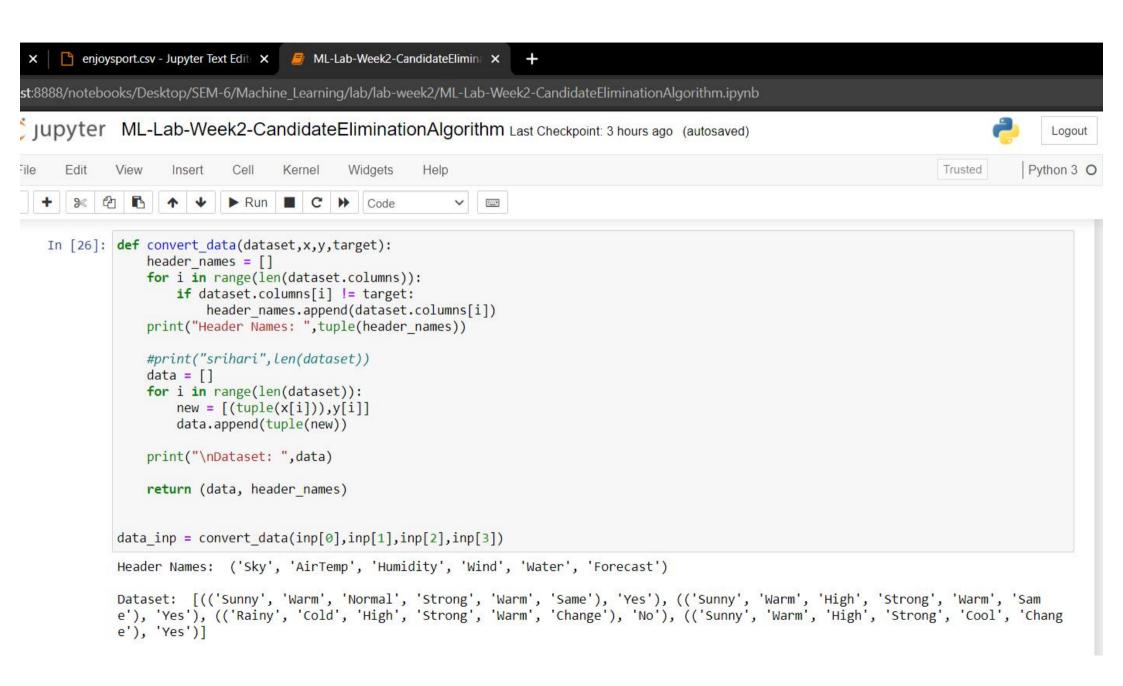
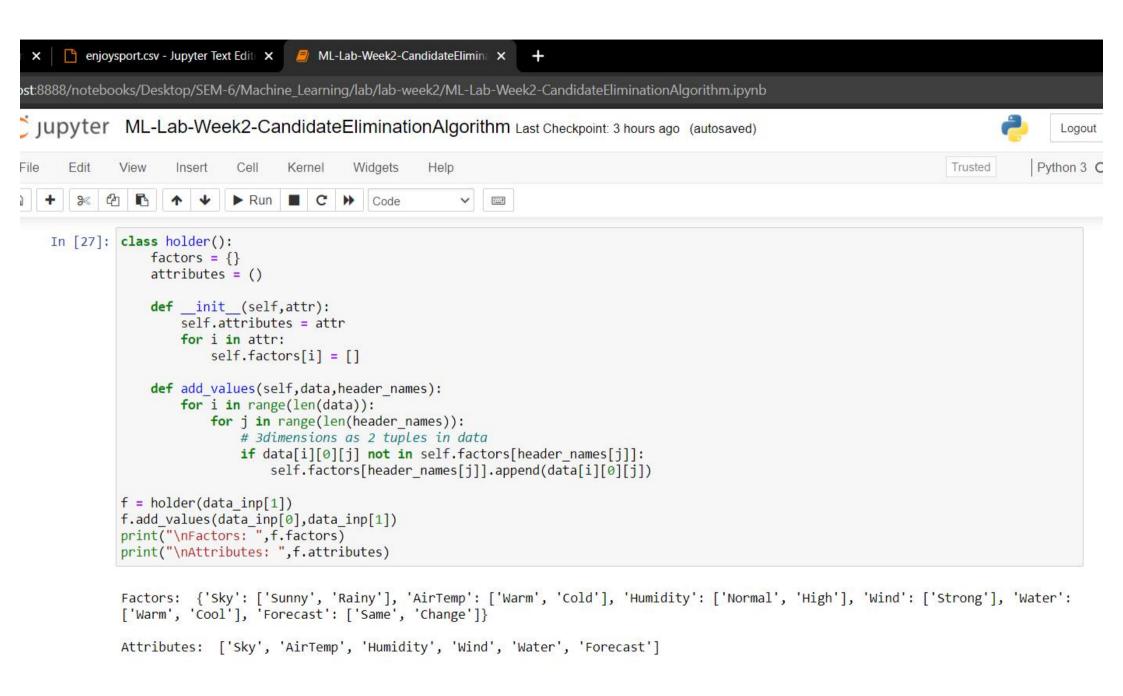
S.SRIHARI - 2018103601 MACHINE LEARNING LAB EX-2 CANDIDATE ELIMINATION ALGORITHM

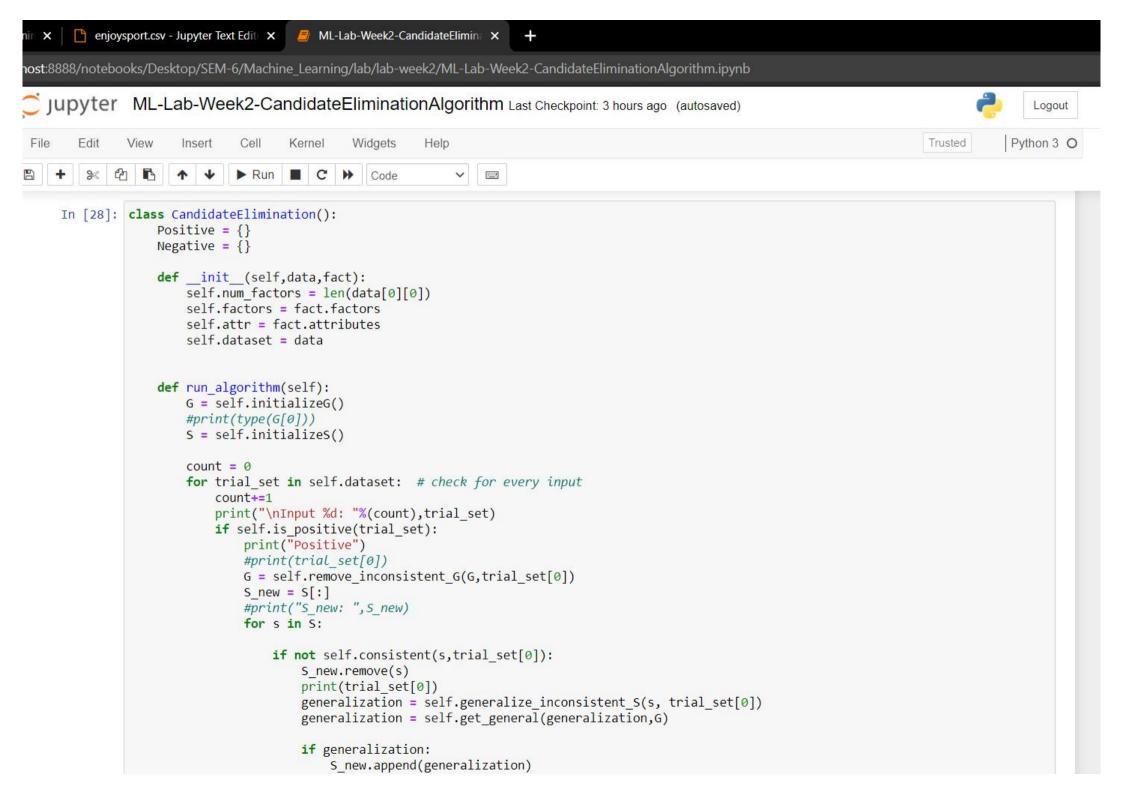
DATASET

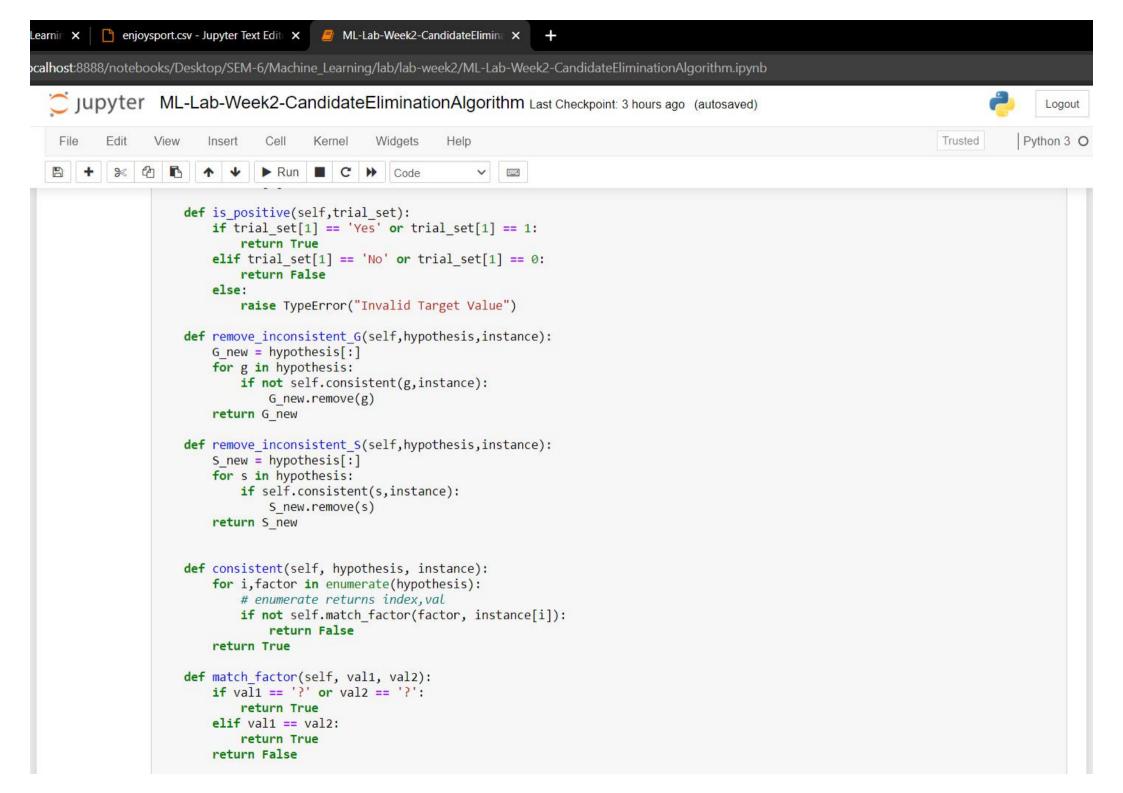




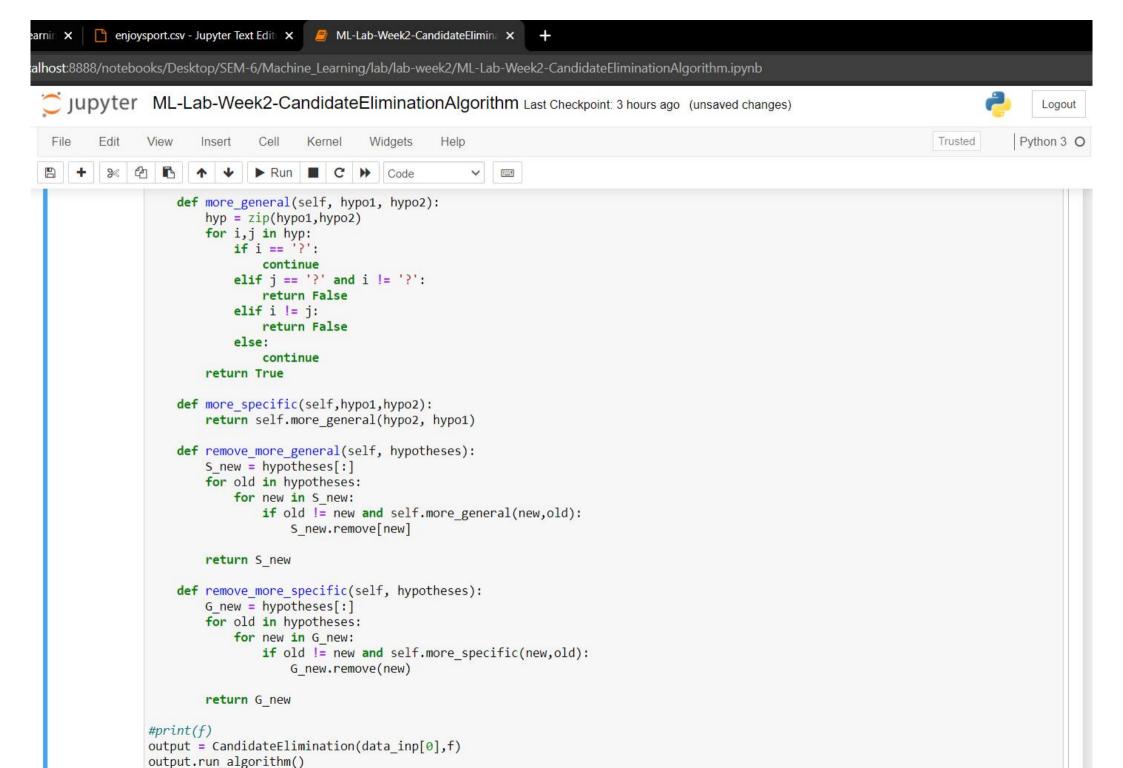




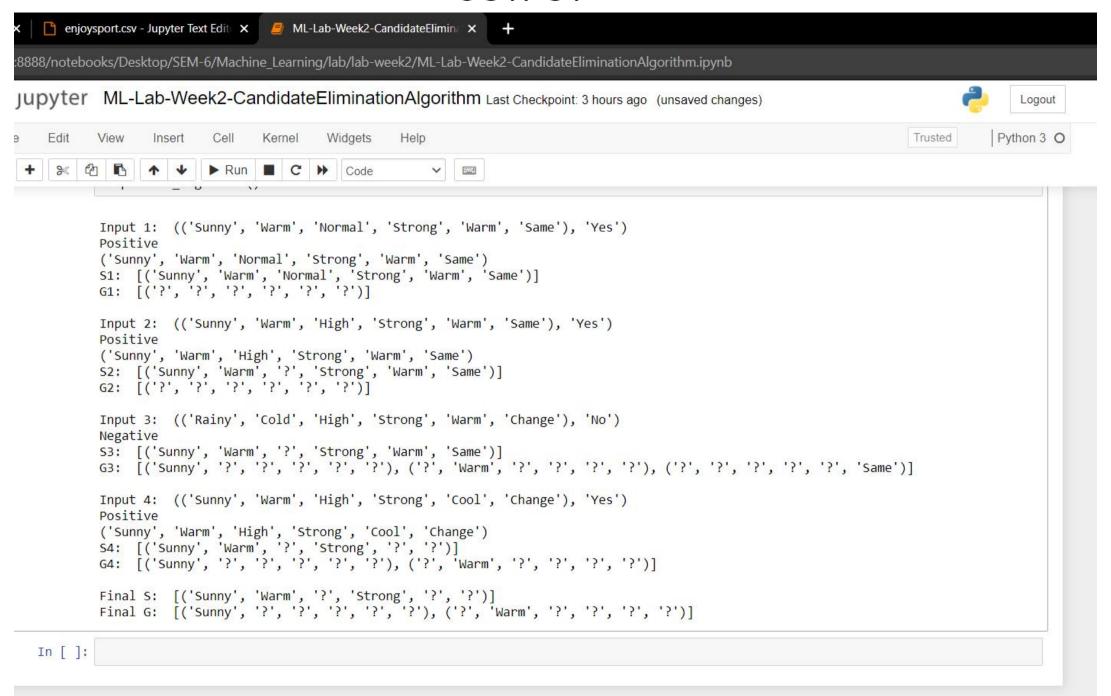


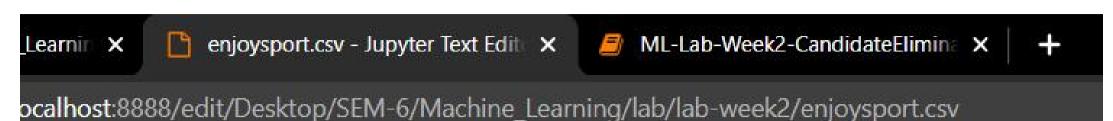


```
jupyter ML-Lab-Week2-CandidateEliminationAlgorithm Last Checkpoint: 3 hours ago (autosaved)
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                  def generalize inconsistent S(self, hypothesis,instance):
                      hypo = list(hypothesis)
                      for i,factor in enumerate(hypo):
                          if factor == '-':
                              hypo[i] = instance[i]
                          elif not self.match factor(factor,instance[i]):
                              hypo[i] = '?'
                      return tuple(hypo)
                  def specialize inconsistent G(self, hypothesis,instance):
                      specializations = []
                      hypo = list(hypothesis)
                      for i,factor in enumerate(hypo):
                          if factor == '?':
                              values = self.factors[self.attr[i]]
                              for j in values:
                                  if instance[i] != j:
                                      hyp = hypo[:]
                                      hyp[i] = j
                                      hyp=tuple(hyp)
                                      specializations.append(hyp)
                      return specializations
                  def get general(self, generalization, G):
                      for g in G:
                          if self.more general(g,generalization):
                              return generalization
                      return None
                  def get specific(self, specializations, S):
                      valid specialization = []
                      for hypo in specializations:
                          for s in S:
                              if self.more specific(s,hypo) or s==self.initializeS()[0]:
                                  valid_specialization.append(hypo)
                      return valid specialization
```



OUTPUT





jupyter enjoysport.csv✓ a few seconds ago

File Edit View Language

- 1 Sky, AirTemp, Humidity, Wind, Water, Forecast, EnjoySport
- 2 Sunny, Warm, Normal, Strong, Warm, Same, Yes
- 3 Sunny, Warm, High Weak, Warm, Same, Yes
- 4 Rainy, Cold, High, Strong, Warm, Change, No.
- 5 Sunny, Warm, High, Strong, Cool, Change, Yes

6

CHANGE IN THE DATASET

CHANGE IN THE OUTPUT

