```
class NaiveBayes:
  def init (self, f, r):
    self.features = f
    self.response = r
  def predict(self,custcase):
    anskeys = list(self.response.keys())
    ansvalues = dict.fromkeys(anskeys,0)
    #print(custcase)
    for key in anskeys:
      ansvalues[key] = self.response[key]
      for ikey, ival in custcase.items():
         ansvalues[key] = ansvalues[key] * self.features[ikey][ival][key]
    print(ansvalues)
    #calculating MAP
    maxkey=""
    maxans=-1
    for ikey, ival in ansvalues.items():
      if ival > maxans:
         maxans= ival
         maxkey = ikey
    return maxkey
#precalculated values from worksheet - "naive bayes classifier working"
response = {"Wait":0.4, "Leave":0.6}
features = {
  "Reservation":
           {
             "Yes": {"Wait":0.5, "Leave":0.666667},
              "No": {"Wait":0.5, "Leave":0.333333}
```