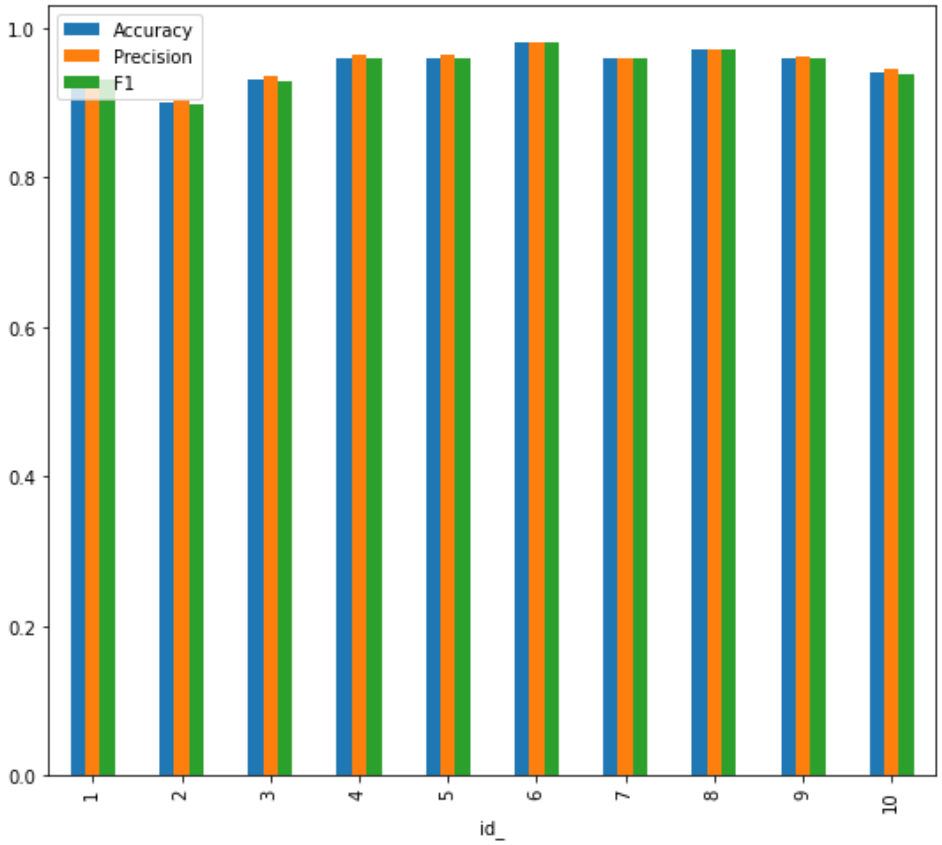
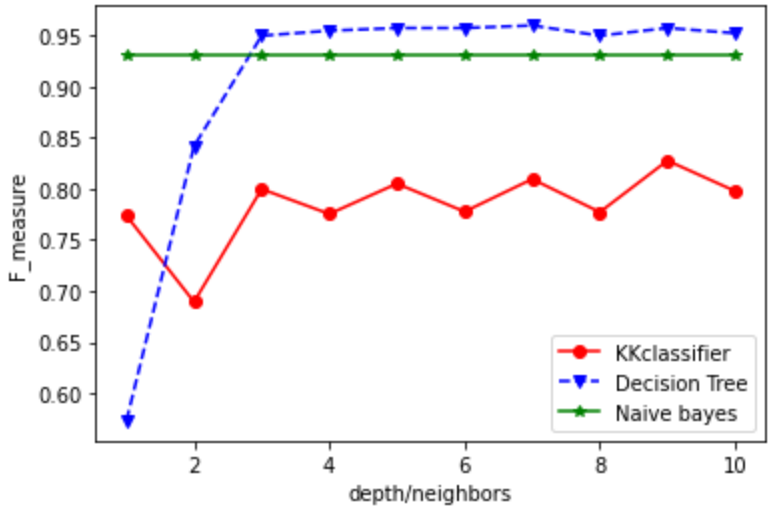
```
report_cf.plot(x='id_', y=["Accuracy", "Precision","F1"], kind="bar", figsize=(9, 8))
```

```
]: <AxesSubplot:xlabel='id_'>
```



After Cross fold validation on decision tree classifier the accuracy, precision and f score was calculated. The scores for each fold was stored in a dataframe and plotted in a barchart. Accuracy, precision and fscore is almost the same for each fold.

```
Text(0, 0.5, 'F_measure')
```



Here I have plotted 3 models. KK classifier, Decision tree and Naïve Bayes. The Naïve bayes don't have depth or neighbors . I plotted it to understand its f_measure with respect to other models. That's why it didn't change for the whole graph. The f_measure for naïve bayes is quite impressive but not better than decision tree. Decision tree makes the highest f_measure. On the other hand the highest score for KK classifier is with 9 neighbours which is way less than any of the others. So the most appropriate model for this data is decision tree.