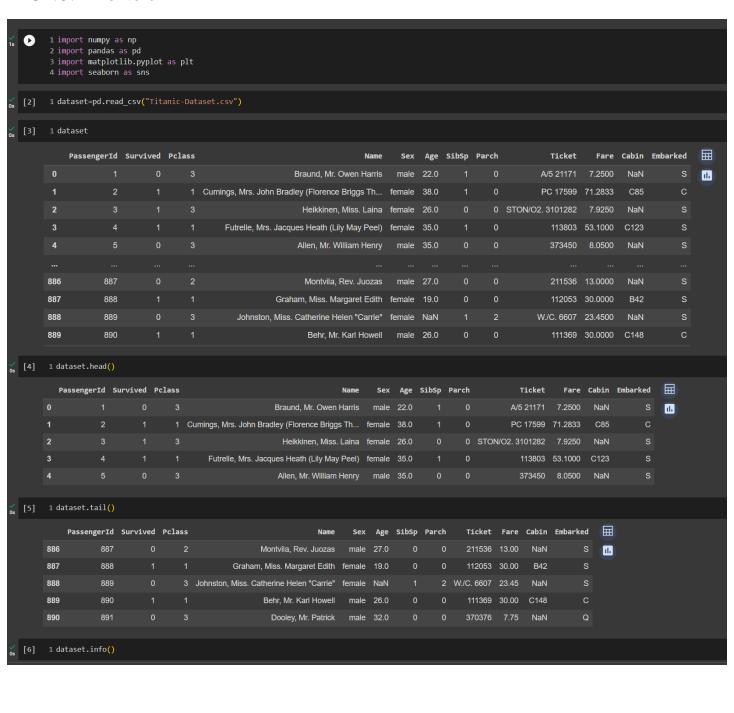
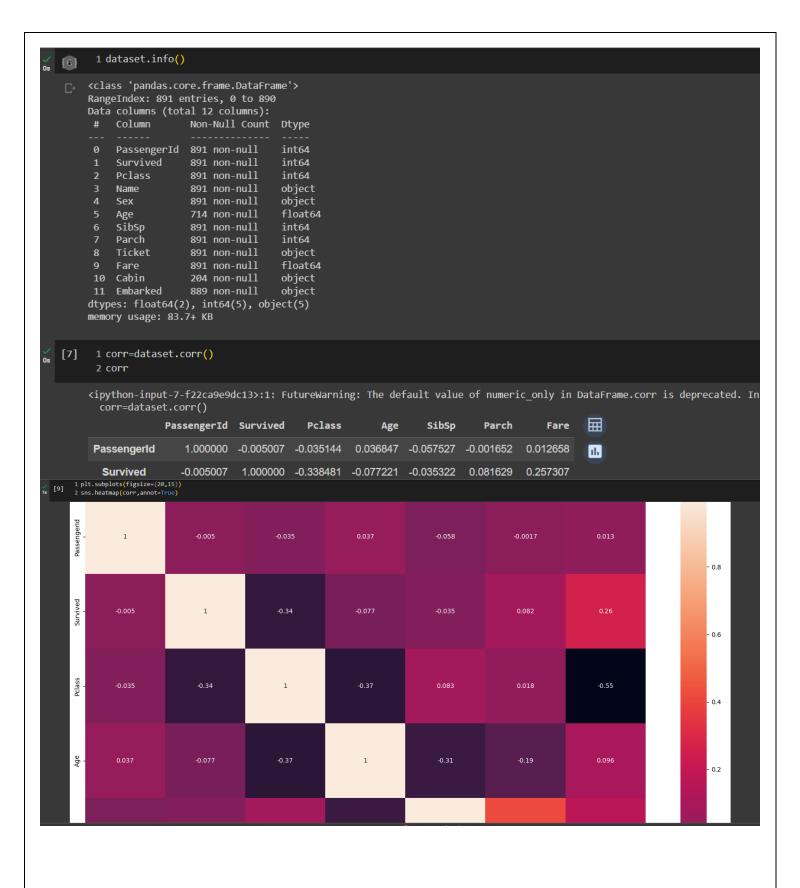
AI MORNING SESSION

ASSISGNMENT 3

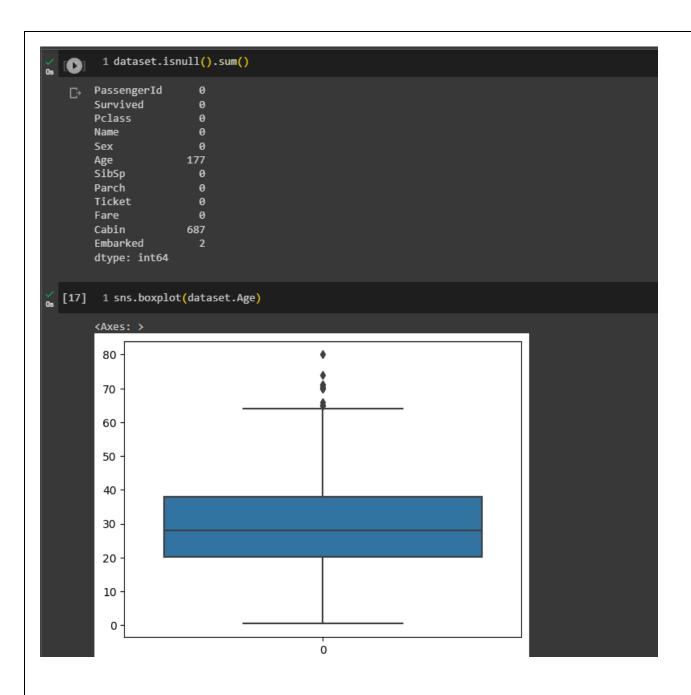
NAME: SRIRAM PRAGVAMS

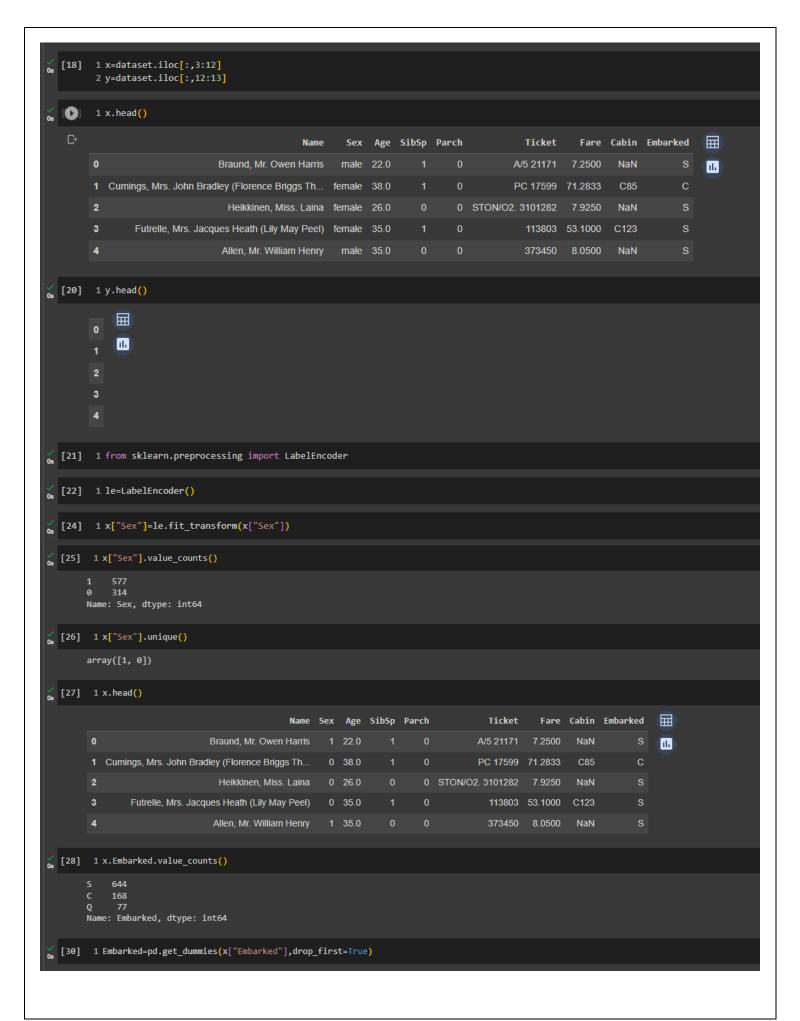
REG NO: 21BCE7519











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[31] 1 Embarked
                      田
           Q S
                      Ш
          0 0
       886 0 1
      887 0 1
       888 0 1
      890 1 0
      891 rows × 2 columns
[33] 1 x=pd.concat([x,Embarked],axis=1)
[34] 1 x.drop(["Embarked"],axis=1,inplace=True)
() [35] 1 x.head
                                       Name Sex Age SibSp Parch
                                                                Ticket Fare Cabin Q S
                                                                                                Braund, Mr. Owen Harris
                                                                                      NaN 0 1
                                                                                                111
       1 Cumings, Mrs. John Bradley (Florence Briggs Th...
                                             0 38.0
                                                                      PC 17599 71.2833
                           Heikkinen, Miss. Laina 0 26.0
                                                            0 STON/O2. 3101282 7.9250
                                                                                      NaN 0 1
   [36] 1 from sklearn.model_selection import train_test_split
          2 x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.3,random_state=0)
   [38] 1 a=[1,2,3,4,5,6]
          2 b=[1,0,1,5,6,3]
          3 for i in range(5):
          4 a_train,a_test,b_train,b_test=train_test_split(a,b,test_size=0.3,random_state=100)
          5 print("with random state",a_train)
         with random state [5, 4, 6, 1]
         with random state [5, 4, 6, 1]
   [39] 1 a=[1,2,3,4,5,6]
          2 b=[1,0,1,5,6,3]
          4 for i in range(5):
                a_train,a_test,b_train,b_test=train_test_split(a,b,test_size=0.3)
                print("without random state",a_train)
         without random state [4, 1, 2, 3]
         without random state [1, 2, 5, 3]
         without random state [3, 6, 4, 1]
         without random state [4, 6, 1, 2]
         without random state [4, 2, 3, 1]
```