```
import numpy as np
 In [1]:
          import pandas as pd
 In [2]: ## Reading from file
          df = pd.read_csv("C:/Users/SW20407278/Desktop/Final AI/Hands-On/Pandas/employee.csv")
         df.head()
 In [3]:
             Empid Name Salary
 Out[3]:
          0
                    Smith
                            5000
          1
                    Jones
                            6000
          2
                 3
                    Harry
                            4000
          3
                     Jem
                            5000
          4
                 5
                    Sylvia
                            4000
         df.info()
 In [4]:
          <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 8 entries, 0 to 7
         Data columns (total 3 columns):
               Column Non-Null Count Dtype
           0
               Empid
                       8 non-null
                                        int64
               Name
                       8 non-null
           1
                                        object
               Salary 8 non-null
                                        int64
         dtypes: int64(2), object(1)
         memory usage: 320.0+ bytes
          df["Annual Salary"] = df.Salary*12
 In [5]:
          df
 In [6]:
                    Name Salary Annual_Salary
Out[6]:
             Empid
          0
                 1
                     Smith
                             5000
                                         60000
          1
                 2
                     Jones
                             6000
                                         72000
          2
                 3
                                         48000
                     Harry
                            4000
          3
                             5000
                                         60000
                      Jem
          4
                 5
                     Sylvia
                            4000
                                         48000
          5
                 6 Charles
                             4000
                                         48000
          6
                 7 William
                             5000
                                         60000
                 7 William
          7
                             5000
                                         60000
In [10]: ## Function to calculate annual increment
          def cal sal(Salary):
```

```
if Salary > 5000 :
                   inc = Salary*30/100
               else:
                   inc = 3000
               return inc
          cal_sal(6000)
In [11]:
          1800.0
Out[11]:
          ## You can apply function on each row for series.
In [16]:
          df["Updated_Salary_With_Increment"] = df.Salary.apply(cal_sal)
In [17]:
             Empid
                      Name Salary Annual_Salary Updated_Salary_With_Increment
Out[17]:
                                                                          3000.0
          0
                  1
                      Smith
                              5000
                                            60000
          1
                  2
                      Jones
                              6000
                                            72000
                                                                          1800.0
          2
                                            48000
                                                                          3000.0
                  3
                      Harry
                              4000
          3
                                            60000
                                                                          3000.0
                  4
                       Jem
                              5000
          4
                              4000
                                            48000
                                                                          3000.0
                  5
                      Sylvia
          5
                  6 Charles
                              4000
                                            48000
                                                                          3000.0
          6
                  7 William
                              5000
                                            60000
                                                                          3000.0
          7
                  7 William
                              5000
                                            60000
                                                                          3000.0
          ## Adding Series to the existing dataframe
In [20]:
          df["Department"] = pd.Series(["Finance", "HR", "IT", "HR", "Finance", "IT", "IT", "HR"])
In [21]:
Out[21]:
             Empid
                             Salary Annual_Salary Updated_Salary_With_Increment Department
          0
                  1
                      Smith
                              5000
                                            60000
                                                                          3000.0
                                                                                      Finance
          1
                              6000
                                                                                          HR
                  2
                      Jones
                                            72000
                                                                          1800.0
          2
                              4000
                                            48000
                                                                          3000.0
                                                                                           IT
                  3
                      Harry
          3
                              5000
                                            60000
                  4
                       Jem
                                                                          3000.0
                                                                                          HR
          4
                  5
                      Sylvia
                              4000
                                            48000
                                                                          3000.0
                                                                                      Finance
          5
                  6 Charles
                              4000
                                            48000
                                                                          3000.0
                                                                                           ΙT
          6
                  7 William
                              5000
                                            60000
                                                                          3000.0
                                                                                           ΙT
          7
                              5000
                                            60000
                                                                          3000.0
                  7 William
                                                                                          HR
```

inc = 0

In [ ]: