```
In [1]: import pandas as pd
        #Creating dataframe
        #Creating a dictionary
        data={'Employee':['John','Alice','Bob','Emma'],
             'Department':['IT','HR','Finance','IT'],
             'Salary':['60000','55000','70000','72000'],
             'Age':['30','28','35','32']}
        #Creating a pandas dataframe
        df =pd.DataFrame(data)
        print(df)
         Employee Department Salary Age
                    IT 60000 30
           John
           Alice
                        HR 55000 28
            Bob Finance 70000 35
                   IT 72000 32
            Emma
In [2]: # 1. Display the first two row of the dataframe
        df.head(2)
          Employee Department Salary Age
                         IT 60000 30
              Alice
                        HR 55000 28
In [3]: # 2. Add a new cloumn of "Experince" with values [5,3,7,6].
        df['Experience']=[5,3,7,6]
        print(df)
         Employee Department Salary Age Experience
                      IT 60000 30
           John
                        HR 55000 28
          Alice
                                             3
            Bob Finance 70000 35
                                             7
            Emma IT 72000 32
                                             6
In [4]: # 3. find the average salary of all employees
        # Converting Salary column to numeric
        df['Salary'] = pd.to_numeric(df['Salary'])
        # Calculating the average salary
        average_salary = df['Salary'].mean()
        print(f"The average salary of all employees is: {average_salary}")
       The average salary of all employees is: 64250.0
In [8]: # b) Perform the following tasks:
        # Create dataset of Students with name and 3 subject
        # Creating the data dictionary
        data = {
           'Name': ['Manisha', 'shruti', 'Radhika', 'muskan', 'priya'],
           'Math': [85, 78, 90, 88, 92],
           'Science': [75, 95, 80, 85, 88],
           'English': [80, 85, 78, 92, 95]
        # Creating the DataFrame
        df = pd.DataFrame(data)
        print(df)
            Name Math Science English
       0 Manisha 85 75
       1 shruti 78
                                    85
       3 muskan 88
       4 priya 92
                                    95
In [9]: # 1. Display all students who scored more than 80 in Math
        students_above_80_math = df[df['Math'] > 80]
        print("Students who scored more than 80 in Math:")
        print(students_above_80_math)
       Students who scored more than 80 in Math:
            Name Math Science English
       0 Manisha 85 75
       2 Radhika 90
                        80
                                   78
       3 muskan 88 85 92
       4 priya 92 88 95
In [10]: # 2. Sort the DataFrame in descending order based on Science scores
        sorted_by_science = df.sort_values(by='Science', ascending=False)
        print("\nStudents sorted by Science scores (descending):")
        print(sorted_by_science)
       Students sorted by Science scores (descending):
            Name Math Science English
       1 shruti 78 95
                                 95
                           88
          priya 92
       3 muskan 88 85 92
       2 Radhika 90 80 78
       0 Manisha 85
                        75 80
In [17]: # 3. Find the student with the highest English score
        highest_english_score = df[df['English'] == df['English'].max()]
        print("\nStudent with the highest English score:")
        print(highest_english_score)
```

Student with the highest English score:

Name Math Science English
4 priya 92 88 95

In []: