```
# Creating the DataFrame
         data = {
             "Employee": ["John", "Alice", "Bob", "Emma"],
             "Department": ["IT", "HR", "Finance", "IT"],
             "Salary": [60000, 55000, 70000, 72000],
             "Age": [30, 28, 35, 32]
         }
         df = pd.DataFrame(data)
         # 1. Display the first two rows of the DataFrame
         print("First two rows of the DataFrame:")
         print(df.head(2))
         # 2. Add a new column "Experience" with values [5, 3, 7, 6]
         df["Experience"] = [5, 3, 7, 6]
         print("\nDataFrame after adding 'Experience' column:")
         print(df)
         # 3. Find the average salary of all employees
         average_salary = df["Salary"].mean()
         print(f"\nAverage Salary of all employees: ${average_salary:.2f}")
        First two rows of the DataFrame:
          Employee Department Salary Age
              John IT
                             60000
                                      30
             Alice
                         HR 55000
        1
                                       28
       DataFrame after adding 'Experience' column:
          Employee Department Salary Age Experience
        0
             John
                    IT 60000 30
                         HR 55000 28
                                                    3
        1
            Alice
        2
             Bob Finance 70000
                                      35
                                                    7
        3
             Emma
                          IT 72000 32
       Average Salary of all employees: $64250.00
In [30]: # task B
         import pandas as pd
         data={'Name':['Rahul','Prashant','Vivek','Shruti','Sammay'],
               'English':[67,87,98,67,87],
               'Science':[78,98,86,67,78],
               'Maths':[88,82,65,73,75]}
         df=pd.DataFrame(data)
         print("data frame:")
         print(df)
                 Display all students who scored more than 80 in Math.
         maths above 80=df.loc[df['Maths']>80]
         print("students scored more than 80 in maths are : ")
         print(maths_above_80)
                 Sort the DataFrame in descending order based on Science scores.
         df_sorted=df.sort_values(by='Science',ascending=False)
         #sorted data frame
         print("Data frame sorted in descending order based on science score : ")
         print(df_sorted)
```

In [27]: import pandas as pd

```
highest_english_student=df.loc[df['English'].idxmax()]
 print("The student with the highest English Score :")
 print(highest_english_student)
data frame:
      Name English Science Maths
     Rahul
             67
                        78
1 Prashant
               87
                                82
                        98
2
    Vivek
               98
                        86
                                65
3
    Shruti
               67
                        67
                                73
               87
                        78
                                75
    Sammay
students scored more than 80 in maths are :
      Name English Science Maths
               67
                         78
1 Prashant
                87
                         98
                                82
Data frame sorted in descending order based on science score :
      Name English Science Maths
1 Prashant
              87
                         98
                                82
2
     Vivek
                98
                                65
                         86
0
     Rahul
                67
                         78
                                88
                                75
4
               87
                        78
    Sammay
               67
                        67
                                73
    Shruti
The student with the highest English Score :
Name
          Vivek
English
             98
Science
             86
Maths
Name: 2, dtype: object
```

Find the student with the highest English score.