

# Assignment 2

Name: Dnyaneshwar Sirsat

Roll no: 360

Batch: C3

## Tests on Students Details

### File:

Complete\_Students\_Details.csv X

1 to 5 of 5 entries Filter

Student ID	Name	Email	Roll_Number	Division	Branch	Club	Attendance Percentage
90014	Dnyaneshwar	dnyaneshwar.sirsat@mitaoe.ac.in	360	C	Chemical	Football	80%
90054	Sumati	sumati.rahate@mitaoe.ac.in	350	C	Mechanics	Fitness	60%
30045	Suraj	suraj.sani@mitaoe.ac.in	365	A	Civil	Basketball	70%
60034	Ishwar	ishwar.desai@mitaoe.ac.in	375	D	ENTC	Library	90%
90031	Praveen	praveen.lohan@mitaoe.ac.in	341	E	Computer	Art	50%

Show 10 per page

### Code:

```
data = [  
    {"ID": 90014, "Name": "Dnyaneshwar", "Email":  
"dnyaneshwar.sirsat@mitaoe.ac.in", "Roll_Number": 360, "Division": "C",  
"Branch": "Chemical", "Club": "Football", "Attendance_Percentage":  
"80%"},  
    {"ID": 90054, "Name": "Sumati", "Email":  
"sumati.rahate@mitaoe.ac.in", "Roll Number": 350, "Division": "C",
```

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"Branch": "Mechanics", "Club": "Fitness", "Attendance_Percentage":
"60%"},
    {"ID": 30045, "Name": "Suraj", "Email": "suraj.sani@mitaoe.ac.in",
"Roll_Number": 365, "Division": "A", "Branch": "Civil", "Club":
"Basketball", "Attendance_Percentage": "70%"},
    {"ID": 60034, "Name": "Ishwar", "Email":
"ishwar.desai@mitaoe.ac.in", "Roll_Number": 375, "Division": "D",
"Branch": "ENTC", "Club": "Library", "Attendance_Percentage": "90%"},
    {"ID": 90031, "Name": "Praveen", "Email":
"praveen.lohan@mitaoe.ac.in", "Roll_Number": 341, "Division": "E",
"Branch": "Computer", "Club": "Art", "Attendance_Percentage": "50%"}
]

# 1. Arrange ID in ascending order
data.sort(key=lambda x: x["ID"])
print("Sorted by ID in ascending order:")
for student in data:
    print(student)

# 2. Print Name of student having the least attendance percentage
least_attendance_student = min(data, key=lambda x:
float(x["Attendance_Percentage"].strip("%")))
print("Student with the least attendance percentage:",
least_attendance_student["Name"])

# 3. Print students having Mechanical branch
mechanical_students = [student for student in data if student["Branch"]
== "Mechanics"]
print("Students in the Mechanical branch:")
for student in mechanical_students:
    print(student)

# 4. Determine who has the highest percentage of attendance
highest_attendance_student = max(data, key=lambda x:
float(x["Attendance_Percentage"].strip("%")))
print("Student with the highest attendance percentage:",
highest_attendance_student["Name"])

# 5. Print student who is in the Fitness club
fitness_club_student = [student for student in data if student["Club"]
== "Fitness"]
print("Student in the Fitness club:")
for student in fitness_club_student:
    print(student)

# 6. Print Students having roll number from 340 to 365
roll_range_students = [student for student in data if 340 <=
student["Roll_Number"] <= 365]

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print("Students with roll numbers from 340 to 365:")
for student in roll_range_students:
    print(student)

# 7. Print student who plays Football
football_players = [student for student in data if student["Club"] ==
"Football"]
print("Students who play Football:")
for student in football_players:
    print(student)

# 8. Print the students with A, B, C division
divisions = ['A', 'B', 'C']
students_by_division = [student for student in data if
student['Division'] in divisions]
print("Students by Division:")
for student in students_by_division:
    print(student['Name'])

# 9. Print student having 360 roll number
roll_number = 360
student_with_roll_number = [student for student in data if
student['Roll_Number'] == roll_number]
print("\nStudent with Roll Number 360:")
print(student_with_roll_number[0]['Name'])

# 10. Arrange in ascending order of the roll numbers with other details
sorted_data_by_roll_number = sorted(data, key=lambda x:
x['Roll_Number'])
print("\nSorted Data by Roll Number:")
for student in sorted_data_by_roll_number:
    print(student)

```

## Output:

```

Sorted by ID in ascending order:
{'ID': 30045, 'Name': 'Suraj', 'Email': 'suraj.sani@mitaoe.ac.in',
'Roll_Number': 365, 'Division': 'A', 'Branch': 'Civil', 'Club':
'Basketball', 'Attendance_Percentage': '70%'}
{'ID': 60034, 'Name': 'Ishwar', 'Email': 'ishwar.desai@mitaoe.ac.in',
'Roll_Number': 375, 'Division': 'D', 'Branch': 'ENTC', 'Club':
'Library', 'Attendance_Percentage': '90%'}
{'ID': 90014, 'Name': 'Dnyaneshwar', 'Email':
'dnyaneshwar.sirsat@mitaoe.ac.in', 'Roll_Number': 360, 'Division': 'C',
'Branch': 'Chemical', 'Club': 'Football', 'Attendance_Percentage':
'80%'}
{'ID': 90031, 'Name': 'Praveen', 'Email': 'praveen.lohan@mitaoe.ac.in',
'Roll_Number': 341, 'Division': 'E', 'Branch': 'Computer', 'Club':
'Art', 'Attendance_Percentage': '50%'}

```

```
{'ID': 90054, 'Name': 'Sumati', 'Email': 'sumati.rabate@mitaoe.ac.in',  
'Roll_Number': 350, 'Division': 'C', 'Branch': 'Mechanics', 'Club':  
'Fitness', 'Attendance_Percentage': '60%'}  
Student with the least attendance percentage: Praveen  
Students in the Mechanical branch:  
{'ID': 90054, 'Name': 'Sumati', 'Email': 'sumati.rabate@mitaoe.ac.in',  
'Roll_Number': 350, 'Division': 'C', 'Branch': 'Mechanics', 'Club':  
'Fitness', 'Attendance_Percentage': '60%'}  
Student with the highest attendance percentage: Ishwar  
Student in the Fitness club:  
{'ID': 90054, 'Name': 'Sumati', 'Email': 'sumati.rabate@mitaoe.ac.in',  
'Roll_Number': 350, 'Division': 'C', 'Branch': 'Mechanics', 'Club':  
'Fitness', 'Attendance_Percentage': '60%'}  
Students with roll numbers from 340 to 365:  
{'ID': 30045, 'Name': 'Suraj', 'Email': 'suraj.sani@mitaoe.ac.in',  
'Roll_Number': 365, 'Division': 'A', 'Branch': 'Civil', 'Club':  
'Basketball', 'Attendance_Percentage': '70%'}  
{'ID': 90014, 'Name': 'Dnyaneshwar', 'Email':  
'dnyaneshwar.sirsat@mitaoe.ac.in', 'Roll_Number': 360, 'Division': 'C',  
'Branch': 'Chemical', 'Club': 'Football', 'Attendance_Percentage':  
'80%'}  
{'ID': 90031, 'Name': 'Praveen', 'Email': 'praveen.lohan@mitaoe.ac.in',  
'Roll_Number': 341, 'Division': 'E', 'Branch': 'Computer', 'Club':  
'Art', 'Attendance_Percentage': '50%'}  
{'ID': 90054, 'Name': 'Sumati', 'Email': 'sumati.rabate@mitaoe.ac.in',  
'Roll_Number': 350, 'Division': 'C', 'Branch': 'Mechanics', 'Club':  
'Fitness', 'Attendance_Percentage': '60%'}  
Students who play Football:  
{'ID': 90014, 'Name': 'Dnyaneshwar', 'Email':  
'dnyaneshwar.sirsat@mitaoe.ac.in', 'Roll_Number': 360, 'Division': 'C',  
'Branch': 'Chemical', 'Club': 'Football', 'Attendance_Percentage':  
'80%'}  
Students by Division:  
Suraj  
Dnyaneshwar  
Sumati
```

Student with Roll Number 360:  
Dnyaneshwar

```
Sorted Data by Roll Number:  
{'ID': 90031, 'Name': 'Praveen', 'Email': 'praveen.lohan@mitaoe.ac.in',  
'Roll_Number': 341, 'Division': 'E', 'Branch': 'Computer', 'Club':  
'Art', 'Attendance_Percentage': '50%'}  
{'ID': 90054, 'Name': 'Sumati', 'Email': 'sumati.rabate@mitaoe.ac.in',  
'Roll_Number': 350, 'Division': 'C', 'Branch': 'Mechanics', 'Club':  
'Fitness', 'Attendance_Percentage': '60%'}  
{'ID': 90014, 'Name': 'Dnyaneshwar', 'Email':  
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'Branch': 'Chemical', 'Club': 'Football', 'Attendance_Percentage':  
'80%'}  
{'ID': 30045, 'Name': 'Suraj', 'Email': 'suraj.sani@mitaoe.ac.in',  
'Roll_Number': 365, 'Division': 'A', 'Branch': 'Civil', 'Club':  
'Basketball', 'Attendance_Percentage': '70%'}  
{'ID': 60034, 'Name': 'Ishwar', 'Email': 'ishwar.desai@mitaoe.ac.in',  
'Roll_Number': 375, 'Division': 'D', 'Branch': 'ENTC', 'Club':  
'Library', 'Attendance_Percentage': '90%'}
```