

ASSIGNMENT-1

DOMAIN:DATA SCIENCE WITH AI-ML

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- We have to take student entries from user (name, roll_no , percentage, year.) Where roll no. should be unique and then we have to print all the entries given by user

PROGRAM

```
# Initialize an empty list to store student entries
student_entries = []

# Function to check if the roll number already exists
def is_roll_number_unique(roll_number):
    for entry in student_entries:
        if entry['roll_no'] == roll_number:
            return False
    return True

# Function to take student entries from the user
def take_student_entries():
    while True:
        # Take input from the user
        name = input("Enter student name (or 'exit' to stop): ")

        # Check if the user wants to exit
        if name.lower() == 'exit':
            break

        roll_number = input("Enter roll number: ")

        # Check if the roll number already exists
        if not is_roll_number_unique(roll_number):
            print("Roll number already exists. Please enter a unique roll number.")
            continue

        percentage = float(input("Enter percentage: "))
        year = int(input("Enter year: "))

        # Create a dictionary to store the student entry
        entry = {
```

```
        'name': name,
        'roll_no': roll_number,
        'percentage': percentage,
        'year': year
    }

    # Add the entry to the list
    student_entries.append(entry)

# Call the function to take student entries from the user
take_student_entries()

# Print all the student entries
print("\nStudent Entries:")
for entry in student_entries:
    print(f"Name: {entry['name']}")
    print(f"Roll No: {entry['roll_no']}")
    print(f"Percentage: {entry['percentage']}")
    print(f"Year: {entry['year']}")
    print()
```

OUTPUT:

Enter student name (or 'exit' to stop): MALATHY

Enter roll number: 17

Enter percentage: 99.99

Enter year: 4

Enter student name (or 'exit' to stop): SHIYAMALA

Enter roll number: 20

Enter percentage: 98.99

Enter year: 4

Enter student name (or 'exit' to stop): SHIYAMALA

Enter roll number: 20

Roll number already exists. Please enter a unique roll number.

Enter student name (or 'exit' to stop): S.SHIYAMALA

Enter roll number: 21

Enter percentage: 98.6

Enter year: 4

Enter student name (or 'exit' to stop):