ailab-4

September 24, 2024

[2]:
```python
#task1
def sumlist(numbers):
    return sum(numbers)

numbers = [7,5,3,0,2]
total = sumlist(numbers)
print("Sum of the list is:", total)
```

```
Sum of the list is: 17
```

[7]:
```python
#task2
def attendance(roll_number, present_students):
    if roll_number in present_students:
        return f"Student with roll number {roll_number} is present."
    else:
        return f"Student with roll number {roll_number} is not present."

present_students = [101, 102, 103, 104]
roll_number = 102
result = attendance(roll_number, present_students)
print(result)
```

```
Student with roll number 102 is present.
```

[3]:
```python
#task3
class Student:
    def __init__(self, name, roll_number):
        self.name = name
        self.roll_number = roll_number

student1 = Student("Laiba", 39984)

print("Name:", student1.name)
print("Roll Number:", student1.roll_number)

student1.name = "Ayesha"
student1.roll_number = 1112
```

```
print("Updated Name:", student1.name)
print("Updated Roll Number:", student1.roll_number)
```

```
Name: Laiba
Roll Number: 39984
Updated Name: Ayesha
Updated Roll Number: 1112
```

[5]:
```
#task4
class Student:
    def __init__(self, name, roll_number, grade):
        self.name = name
        self.roll_number = roll_number
        self.grade = grade

student1 = Student("Laiba", 11, "A")
student2 = Student("Ali", 14, "B")
student3 = Student("Ahmed", 15, "A+")

print("Student 1:", student1.name, "", student1.roll_number, "", student1.grade)
print("Student 2:", student2.name, "", student2.roll_number, "", student2.grade)
print("Student 3:", student3.name, "", student3.roll_number, "", student3.grade)
```

```
Student 1: Laiba  11  A
Student 2: Ali  14  B
Student 3: Ahmed  15  A+
```

[7]:
```
#task5
class Student:
    def __init__(self, name, age, grades):
        self.name = name
        self.age = age
        self.grades = grades

    def average(self):
        if len(self.grades) == 0:
            return 0
        return sum(self.grades) / len(self.grades)

student1 = Student("Laiba Afridi", 20, [85, 90, 78, 92])
average_grade = student1.average()
print(f"{student1.name}'s average grade is: {average_grade}")
```

```
Laiba Afridi's average grade is: 86.25
```

[ ]: