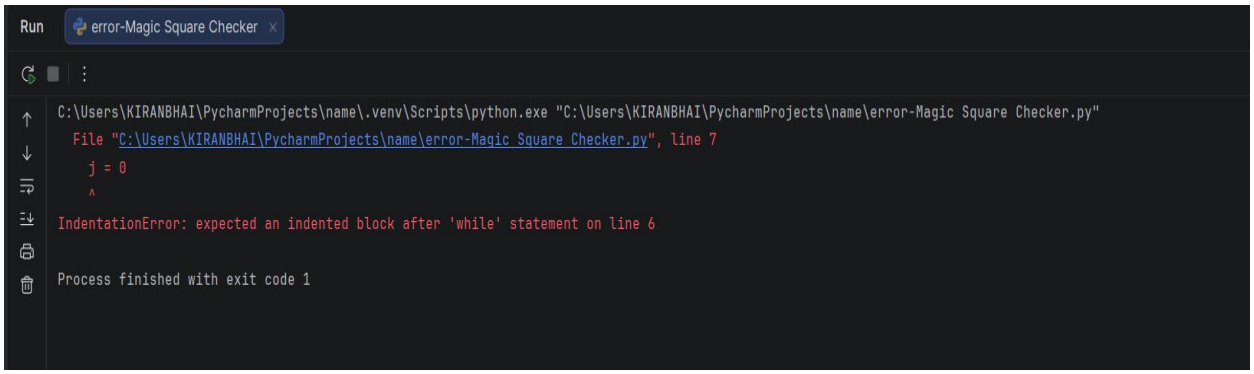
Report

Error code:

```
print("Magic Square Checker")
n = int(input("Enter size of square: "))
total_sum = 0
row_sum = 0
i = 0
while i < n:
j = 0
row_sum = 0
while j < n:
value = int(input("Enter number: "))
row_sum = row_sum + value
j = j + 1
if i == 0:
total_sum = row_sum
else:
if row_sum != total_sum:
print("Not Magic Square")
i = i + 1
if row_sum == total_sum:
print("Magic Square")
else:
print("Not Magic")
if total_sum % 2 = 0:
print("Even magic constant")
else:
print("Odd magic constant")
```



List of Errors:

1) Indentation Error

- The statements inside the while loop are not indented.
- The statements inside if and else are not indented.
- Python requires proper indentation to define blocks.

2) Wrong Comparison Operator

- if total_sum % 2 = 0:
- = is assignment operator.
- Comparison operator == is required.
- It should be:

✓ **if total_sum % 2 == 0:**

3) Logical Placement Issue

- The condition:

✓ **if row_sum == total_sum:**

- is outside the loop.
- It only checks the **last row**, not all rows.
- This may incorrectly print "Magic Square".

4) Incomplete Magic Square Check

- The program checks only **row sums**.
- It does not check:
- Column sums
- Main diagonal
- Secondary diagonal
- A true magic square requires all of these to be equal.

5) No Control Variable (Flag Missing)

- When a row sum is not equal:

✓
```
if row_sum != total_sum:
    print("Not Magic Square"
```

- The program continues running.
- A flag variable like is_magic = False should be used.

6) **Inconsistent Output Messages**

- The program prints:
- "Not Magic Square"
- "Not Magic"
- Both mean the same but are written differently.

7) Values Not Stored

- The square values are not stored in a 2D list.
- Without storing values, checking columns and diagonals is not possible.

Corrected code:

```
print("Magic Square Checker")

n = int(input("Enter size of square: "))

total_sum = 0
row_sum = 0

i = 0
while i < n:
    j = 0
    row_sum = 0
    while j < n:
        value = int(input("Enter number: "))
        row_sum = row_sum + value
        j = j + 1

    if i == 0:
        total_sum = row_sum
    else:
        if row_sum != total_sum:
            print("Not Magic Square")

    i = i + 1

if row_sum == total_sum:
    print("Magic Square")
else:
    print("Not Magic")
```

```
if total_sum % 2 == 0:
    print("Even magic constant")
else:

    print("Odd magic constant")
```