CODE : PROBLEM 6

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"""

PROBLEM STATEMENT : TO LIST OF N INTEGERS
PARTITION LIST INTO TWO SUBLISTS EVEN AND AODD
NUMBER.
"""

SOLUTION :

```python
Number = int(input("Enter how many numbers you want to
insert in the list :"))

print("Enter the number that you want to store into the
list :")

list = []
for i in range(0, Number):

        n = int(input())
        list.append(n)

print(f"The numbers entered by user in the list =
{list}")

def even_Odd(list):
        even = []
        odd = []
        for i in list:
                if i % 2:
                        even.append(i)
```

```python
            else:
                odd.append(i)

        return even, odd

same_list = list
even, odd = even_Odd(same_list)

print(f"Even numbers from the list = {even}")
print(f"Odd numbers from the list = {odd}")


"""
Output : Enter how many numbers you want to insert  in
the list    :          10
        Enter the number that you want to store into
the list :
        12
        48
        5
        7
        0
        78
        95
        101
        958
        456
        The numbers entered by user in the list = [12,
48, 5, 7, 0, 78, 95,    101, 958, 456]
        Even numbers from the list = [5, 7, 95, 101]
        Odd numbers from the list = [12, 48, 0, 78,
958, 456]
"""
```