26/03/2025 – Even/Odd Logic

1. To know the number is even or odd

```python
n=int(input("Enter a num: "))
if n%2==0:
    print("The number is even")
else:print("The number is odd")
```

2. WAP to check if a number is even or odd using <u>customized function</u>

```python
def is_evenodd(num):
    return n%2==0
n=int(input("Enter a number: "))
flag=is_evenodd(n)
if flag:
    print(n," is even")
else:print(n," is odd")
```

3. WAP to print all the even numbers of defined customized range

```python
def is_evenodd(num):
    return num%2==0
n=int(input("Enter the start number "))
m=int(input("Enter the last number "))
print("Even nums : ")
for i in range(n,m+1):
    flag=is_evenodd(i)
    if flag:
        print(i)
```

4. WAP to print all the even numbers and the odd numbers of a user/customized range separately

```python
def is_evenodd(num):
    return num%2==0
n=int(input("Enter the start number "))
m=int(input("Enter the last number "))
if n>m:
    print("Invalid input")
else:
    print("Even nums : ")
    for i in range(n,m+1):
        flag=is_evenodd(i)
        if flag:
            print(i)
    print("\nOdd numbers: ")
    for i in range(n,m+1):
        flag=is_evenodd(i)
        if flag:
            pass
        else:print(i)
```

5. WAP to print first n even / odd numbers

```python
def is_evenodd(num):
    return num%2==0
j=0
i=1
n=int(input("Enter the req even numbers: "))
while (j<n):
    flag=is_evenodd(i)
    if flag:
        print(i)
        j+=1
    i+=1
print("Total even numbers count: ",j)
```