

Corrections TP N°4

#Ex1-----

```
n = int(input("Enter n: "))
if n < 0:
    print("Invalid input value!")

else:
    # Initialize the result to zero
    sum = 0
    for i in range(1, 2*n, 2):
        sum += i

    print(f"Sum of the first {n} odd numbers = {sum}")
```

2-Initialize the result to zero

```
sum_alternate = 0
sign = 1
for i in range(1, 2*n, 2):
    sum_alternate += sign*i
    sign *= -1

print(f"Sum of the first {n} odd numbers with alternating signs = {sum_alternate}")
```

#Ex2-----

```
n = int(input("Enter n: "))

if n > 0:
    for i in range(2*n - 1, 0, -2):
        print(i, end=" ")
elif n < 0:
    n = -n
    for i in range(1, 2*n, 2):
        print(-i, end=" ")
```

#Ex3-----

```
n = int(input("Enter n: "))
p = int(input("Enter p: "))

if n > 0 and p > 0:
    # Initialize the result
    r = n

    # Perform all multiplications, and print
    for i in range(1, p):
        r *= n
        print(f"{n} * ", end="")

    # print the result
    print(f"{n} = {r}")
```

```
#Ex4-----  
n = 0  
while n >= 0:  
    # Take a new number from the input  
    # as long as the previously received number is >= 0  
    n = int(input(""))  
  
print(n)
```