Q1: a.

i = 10

while i <= 200:

    print(i, end=" ")

    i = i + 10

b.

i = 1

while i <= 100000000:

    print(i, end=" ")

    i = i \* 10

c.

j = 0

for j in range(0, 10, 1):

    j = (10\*\*j) + j

    print(j, end=" ")

e.

i = 1

while i < 4096:

    print(i, end=" ")

    i = i \* 2

Q2:

n = int(input("enter the no of iterations: "))

sum = 0

for i in range(1, n):

    i = i / 2

    sum = sum + i

print(sum)

Q3:

i = 1

sum = 0

for i in range(1, 11, 1):

    i = i\*\*2

    sum = sum + i

print(f"Sum of first 10 natural numbers is {sum}")

Q4:

start = int(input("enter start: "))

end = int(input("enter end: "))

count = 0

for num in range(1, 101, 1):

    if num % 2 == 0:

        count = count + 1

if count == 2:

    print(num)