## Experiment No: 22

## **Experiment Name:** Print all Even\_Odd from 1 to n (Using Continue)

## **Objective:**

The objective of this program is to print all even and odd numbers from 1 to n using the continue statement. This exercise helps in understanding the usage of continue to skip specific iterations in a loop.

# **Code:**

#include <stdio.h>

int main() {

int n;

printf("Enter the value of n: ");

scanf("%d", &n);

printf("Even numbers from 1 to %d:\n", n);

for (int i = 1; i <= n; i++) {

if (i % 2 != 0) {

continue;

}

printf("%d ", i);

}

printf("Odd numbers from 1 to %d:\n", n);

for (int i = 1; i <= n; i++) {

if (i % 2 == 0) {

continue;

}

printf("%d ", i);

}

return 0;

}

# **Input:**

Enter the value of n: 4

# **Output:**

Even numbers from 1 to 4:

2 4 Odd numbers from 1 to 4:

1 3

## **Discussion:**

The program effectively prints even and odd numbers separately using the continue statement to skip undesired iterations.

The usage of continue improves code readability and avoids unnecessary computations.