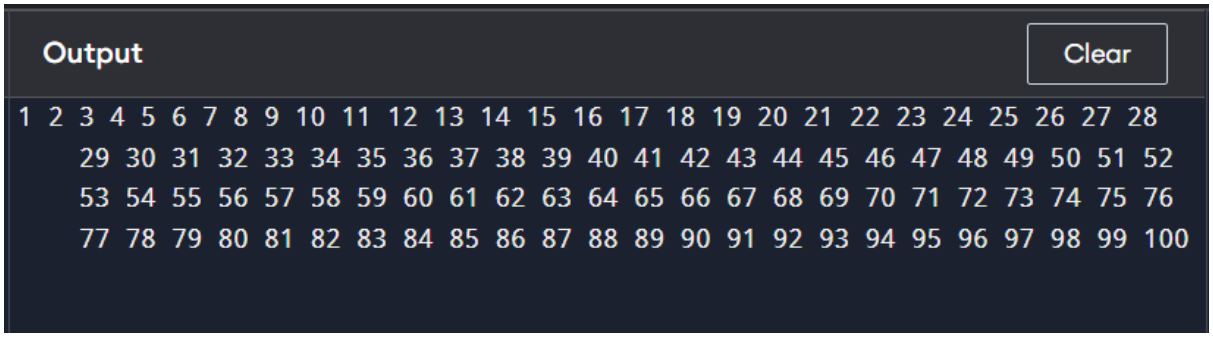
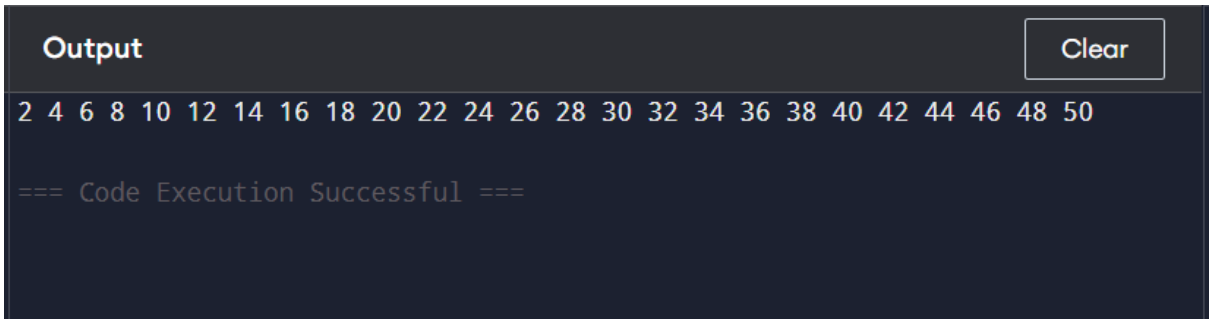
1. Write a program to print numbers from 1 to 100.

```
#include <stdio.h>

int main() {

   for(int i = 1; i <= 100; i++) {

      printf("%d ", i);

   }

   return 0;

}
```



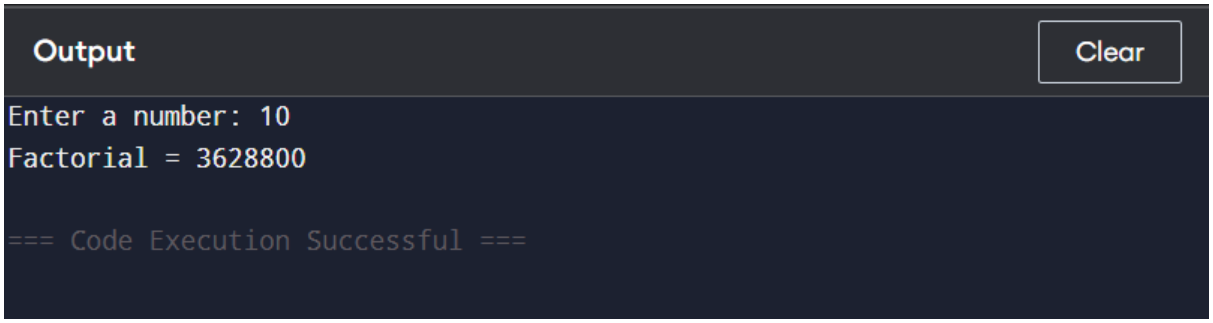
2. Write a program to print even numbers from 1 to 50.

```
#include <stdio.h>

int main() {

   for(int i = 2; i <= 50; i += 2) {

      printf("%d ", i);

   }

   return 0;

}
```



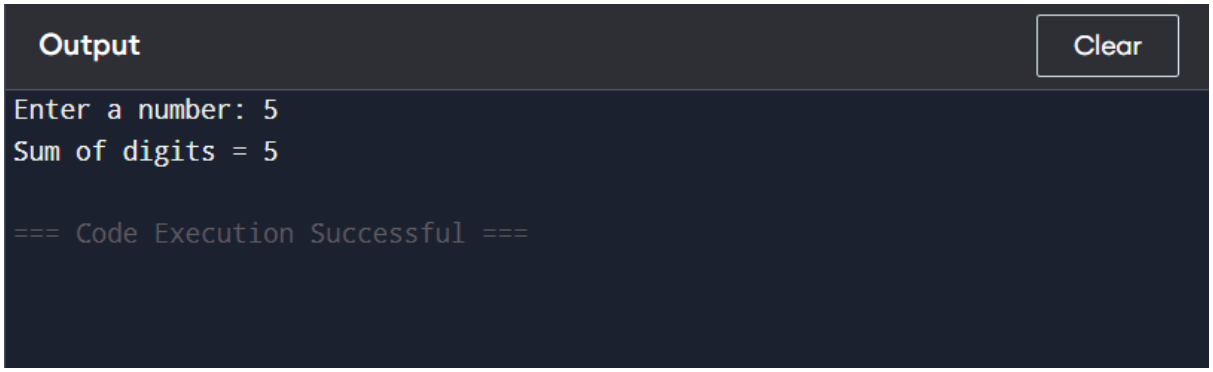
3. Write a program to find the factorial of a number.

```
#include <stdio.h>
int main() {
   int n;
   long long fact = 1;
   printf("Enter a number: ");
   scanf("%d", &n);
   for(int i = 1; i <= n; i++) {
      fact *= i;
   }
   printf("Factorial = %lld", fact);
   return 0;
}
```



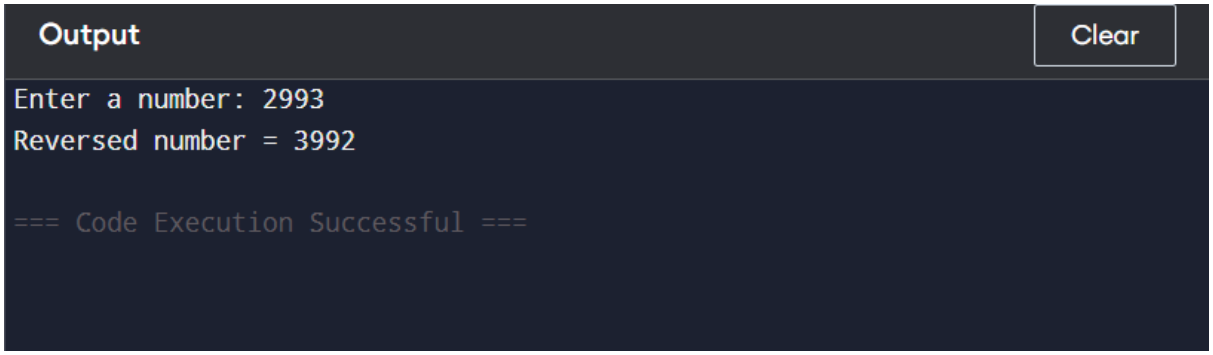
4. Write a program to calculate the sum of digits of a number.

```
#include <stdio.h>

int main() {
   int n, sum = 0;
   printf("Enter a number: ");
   scanf("%d", &n);
   while(n != 0) {
      sum += n % 10;
      n /= 10;
   }
   printf("Sum of digits = %d", sum);
   return 0;
}
```



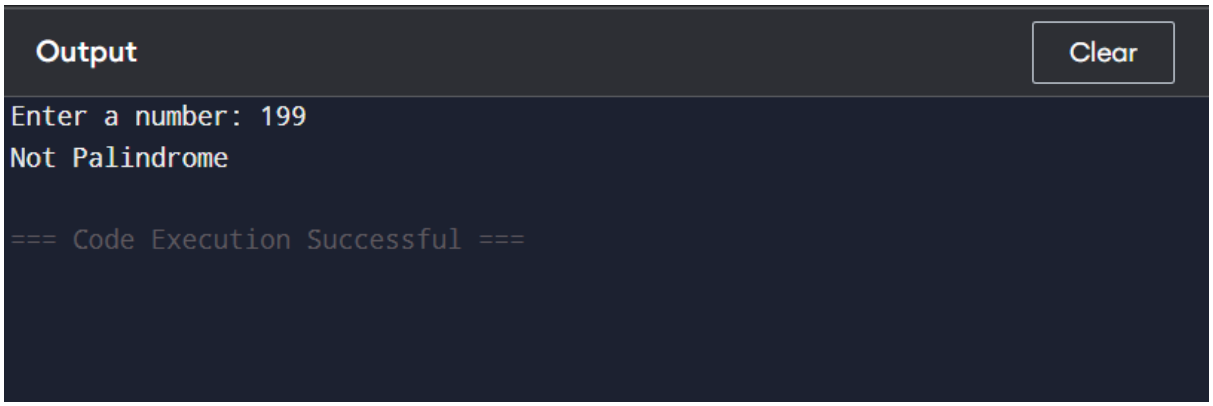
5. Write a program to reverse a number.

```
#include <stdio.h>

int main() {
   int n, reverse = 0;
   printf("Enter a number: ");
   scanf("%d", &n);
   while(n != 0) {
      reverse = reverse * 10 + n % 10;
      n /= 10;
   }
   printf("Reversed number = %d", reverse);
   return 0;
}
```



6. Write a program to check whether a number is a palindrome.

```
#include <stdio.h>
int main() {
   int n, original, reverse = 0;
   printf("Enter a number: ");
   scanf("%d", &n);
   original = n;
   while(n != 0) {
      reverse = reverse * 10 + n % 10;
      n /= 10;
   }
   if(original == reverse)
      printf("Palindrome");
   else
      printf("Not Palindrome");
   return 0;
}
```



7. Write a program to print multiplication table of a number.

```
#include <stdio.h>

int main() {
   int n;
   printf("Enter a number: ");
   scanf("%d", &n);
   for(int i = 1; i <= 10; i++) {
      printf("%d x %d = %d\n", n, i, n * i);
   }
   return 0;
}
```

Output

```
Enter a number: 20
20 x 1 = 20
20 x 2 = 40
20 x 3 = 60
20 x 4 = 80
20 x 5 = 100
20 x 6 = 120
20 x 7 = 140
20 x 8 = 160
20 x 9 = 180
20 x 10 = 200


=== Code Execution Successful ===
```

8. Write a program to count the number of digits in a number.

```
#include <stdio.h>

int main() {
   int n, count = 0;
   printf("Enter a number: ");
   scanf("%d", &n);
   if(n == 0)
      count = 1;
   while(n != 0) {
      count++;
      n /= 10;
   }
   printf("Number of digits = %d", count);
   return 0;
}
```

Output

```
Enter a number: 20
Number of digits = 2

=== Code Execution Successful ===
```

9. Write a program to print the Fibonacci series up to n terms.

```
#include <stdio.h>

int main() {
    int n, a = 0, b = 1, next;
    printf("Enter number of terms: ");
    scanf("%d", &n);
    for(int i = 0; i < n; i++) {
        printf("%d ", a);
        next = a + b;
        a = b;
        b = next;
    }
    return 0;
}
```

Output

```
Enter number of terms: 10
0 1 1 2 3 5 8 13 21 34

=== Code Execution Successful ===
```

10. Write a program to calculate the sum of the first n natural numbers.

```
#include <stdio.h>

int main() {
   int n, sum = 0;
   printf("Enter a number: ");
   scanf("%d", &n);
   for(int i = 1; i <= n; i++) {
      sum += i;
   }
   printf("Sum = %d", sum);
   return 0;
}
```