

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;  
}
```

OutputClear

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76
77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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;  
}
```

OutputClear

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50

=== Code Execution Successful ===

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;
}
```

Output

Clear

```
Enter a number: 10
Factorial = 3628800
```

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

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;
```

```
}
```

Output

Clear

```
Enter a number: 5
```

```
Sum of digits = 5
```

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

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;
```

```
}
```

Output

Clear

```
Enter a number: 2993
```

```
Reversed number = 3992
```

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

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;
}
```

Output

Clear

Enter a number: 199

Not Palindrome

=== Code Execution Successful ===

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;
```

```
}
```

Output

```
Enter a number: 11
```

```
Sum = 66
```

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