Switch

1.

```c
int main()
{
    double num1, num2;
    int choice;

    printf("Enter two numbers: ");
    scanf("%lf %lf", &num1, &num2);

    printf("1. +\n");
    printf("2. -\n");
    printf("3. *\n");
    printf("4. /\n");
    printf("Please enter your choice: ");
    scanf("%d", &choice);

    switch (choice)
    {
        case 1:
            printf("Result: %.2lf\n", num1 + num2);
            break;
        case 2:
            printf("Result: %.2lf\n", num1 - num2);
            break;
        case 3:
            printf("Result: %.2lf\n", num1 * num2);
            break;
        case 4:
            if (num2 != 0)
                printf("Result: %.2lf\n", num1 / num2);
            else
                printf("Error: Division by zero!\n");
            break;
        default:
            printf("Invalid choice!\n");
            break;
    }
}
```

While Loop

1.
```c
int main()
{

    int num, countOdd = 0, countEven = 0;
    int i = 0;

    printf("Enter 10 numbers:\n");

    while (i < 10)
        {
            printf("Number %d: ", i + 1);
            scanf("%d", &num);

            if (num % 2 == 0)
                countEven + 1;
            else
                countOdd + 1;

            i + 1;
        }

    printf("Total count of odd numbers: %d\n", countOdd);
    printf("Total count of even numbers: %d\n", countEven);

    return 0;

}
```

2.
```c
int main()
{
    int num, countOdd = 0, countEven = 0;

    printf("Enter numbers (terminate with -99):\n");

    while (scanf("%d", &num) == 1 && num != -99)
        {
            if (num % 2 == 0)
                countEven + 1;
            else
                countOdd + 1;
        }

    printf("Total count of odd numbers: %d\n", countOdd);
    printf("Total count of even numbers: %d\n", countEven);

    return 0;
}
```

Do While Loop

1.
```c
int main()
{
    int num, countOdd = 0, countEven = 0;
    int i = 0;

    printf("Enter 10 numbers:\n");

    do {
        printf("Number %d: ", i + 1);
        scanf("%d", &num);

        if (num % 2 == 0)
            countEven++;
        else
            countOdd++;

        i++;
    }

    while (i < 10);

        printf("Total count of odd numbers: %d\n", countOdd);
        printf("Total count of even numbers: %d\n", countEven);
}
```

2.
```c
int main()
{
    int num, countOdd = 0, countEven = 0;

    printf("Enter numbers (terminate with -99):\n");

        do {
            printf("Number: ");
            scanf("%d", &num);

            if (num != -99)
                {
                    if (num % 2 == 0)
                        countEven++;
                    else
                        countOdd++;
                }
        } while (num != -99);

    printf("Total count of odd numbers: %d\n", countOdd);
    printf("Total count of even numbers: %d\n", countEven);

    return 0;
}
```

FOR Loop

1.
```c
int main()
{
    int num, sum = 0;
    double average;

    printf("Enter 10 numbers:\n");

    for (int i = 1; i <= 10; i++)
    {
        printf("Number %d: ", i);
        scanf("%d", &num);

        sum += num;
    }

    average = (double)sum / 10;

    printf("Average value: %.2f\n", average);

    return 0;
}
```

2.
```c
int main()
{
    for (int i = 1; i <= 5; i++)
    {
        for (int j = 1; j <= i; j++)
        {
            printf("*");
        }
        printf("\n");
    }

    return 0;
}
```