1.Find a digit at a specific place in a number:

```
def digit_at_place(number, place):
    number_str = str(abs(number))  # Convert the number to a string and handle negatives
    if place < 1 or place > len(number_str):
        return "Invalid place"
    return int(number_str[place - 1])

# Example usage
print(digit_at_place(12345, 3))
```

Expected Output: 3

2. Find the 2nd largest digit in a number:

```
def second_largest_digit(number):
    unique_digits = sorted(set(int(d) for d in str(abs(number))), reverse=True)
    if len(unique_digits) < 2:
        return "No second largest digit"
    return unique_digits[1]

# Example usage
print(second_largest_digit(12345))
```

Expected Output: 4

3. Find the Exponentiation of a Number:

```
public class Exponentiation {
    public static double power(double base, int exponent) {
        return Math.pow(base, exponent);
    }

    public static void main(String[] args) {
```

```
        double base = 2;
        int exponent = 3;
        System.out.println(power(base, exponent));
    }
}
```

Expected Output: 8.0

4. Area of a triangle when 3 sides are given:

```
public class TriangleArea {
    // Method to calculate the area of a triangle using Heron's formula
    public static double calculateArea(double a, double b, double c) {
        // Calculate the semi-perimeter
        double s = (a + b + c) / 2;

        // Calculate the area using Heron's formula
        double area = Math.sqrt(s * (s - a) * (s - b) * (s - c));

        return area;
    }

    public static void main(String[] args) {
        // Default side lengths
        double a = 3.0;
        double b = 4.0;
        double c = 5.0;

        // Check if the sides form a valid triangle
        if (a + b > c && a + c > b && b + c > a) {
            // Calculate and display the area
            double area = calculateArea(a, b, c);
            System.out.println("The area of the triangle is: " + area);
        } else {
            System.out.println("The given sides do not form a valid triangle.");
```

```
        }
    }
}
```

Expected Output:

The area of the triangle is: 6.0

5. Swap Two Numbers:

```
#include <stdio.h>

int main() {
    // Default values
    int a = 5;
    int b = 10;
    int temp;

    // Swapping using a temporary variable
    temp = a;
    a = b;
    b = temp;

    // Output the swapped values
    printf("After swapping: a = %d, b = %d\n", a, b);

    return 0;
}
```

Expected Output:

After swapping: a = 10, b = 5

6. Sum of Digits of a Number using Recursion:

```
#include <stdio.h>
```

```
int sum(int num);

int main() {
    // Default number
    int num = 12345;
    int result;

    result = sum(num);
    printf("Sum of digits in %d is %d\n", num, result);
    return 0;
}

int sum(int num) {
    if (num != 0) {
        return (num % 10 + sum(num / 10));
    } else {
        return 0;
    }
}
```

Expected Output:

Sum of digits in 12345 is 15