

```

void main(){

//    1. Take XY coordinate and determine in which quadrant the coordinate
point lies.

    int x = -50;
    int y = 93;
    if(x > 0 && y > 0 ){
        print('put the value in first quadrant');
    }
    else if (x < 0 && y > 0 ){
        print('put the value in second qudrant');
    }
    else if(x < 0 && y < 0){
        print('put the value in third quadrant');
    }
    else if(x > 0 && y > 0){
        print('put the value in fourth quadrant');
    }
    else{
        print('put null');
    }

//    2. Take three numbers and find a maximum between three numbers.

    int findMax (int a, int b, int c,){
        if (a>=b && a>=c){
            return a;
        }
        else if (b>=a && b>=c){
            return b;
        }
        else{
            return c;
        }
    }

    int num1 = 50;
    int num2 = 60;
    int num3 = 20;

    int maximum = findMax (num1, num2, num3);
    print('The maximum number $num1, $num2, $num3 : $maximum');

//    LOOP:1

    int number = 2;
    print ('The Multiplication is $number');
    for (int i = 1; i <=10; i++){
        var result = number*i;
        print('$number*$i = $result');
    }

//    LOOP:2

    int odd = 0;
    int count = 0;

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        for (int i = 1; count < 20; i +=2 ){
            odd+= i;
            count++;
        }
        print ('The sum of first 20 odd numbers is :$odd');

//    LOOP:3

        int num = 5;

        int factorial = 1;

        for(int i = 1; i <= num;i++){
            factorial*=i;

        }
        print('$factorial' );

//    LOOP:4

        int digit = 17;
        bool isPrime = true;

        if (digit <= 1){
            isPrime = false;
        }
        else {
            for (int i = 2; i < digit; i++){
                if(digit % i ==0){
                    isPrime = false;
                    break;

                }
            }

        }

        if (isPrime) {
            print('$digit is a prime number');
        } else {
            print('$digit is a composite number');
        }
    }

```