

# Assignment # 02

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## Source Code

```
void main() {
// Conditions:
// 1. Take the XY coordinate and determine in which quadrant the coordinate
point lies.
    dynamic x = -4;
    dynamic y = -5;
    if(x > 0 && y > 0){
        print("Coordinate Point of X and Y is $x and $y lies in First Quadrant");
    }
    else if(x < 0 && y > 0){
        print("Coordinate Point of X and Y is $x and $y lies in Second Quadrant");
    }
    else if(x < 0 && y < 0){
        print("Coordinate Point of X and Y is $x and $y lies in Third Quadrant");
    }
    else if(x > 0 && y < 0){
        print("Coordinate Point of X and Y is $x and $y lies in Fourth Quadrant");
    }

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

    int a = 10;
    int b = 15;
    int c = 8;
    if(a > b && a > c){
        print("$a is the Maximum Number");
    }
    else if(b > a && b > c){
        print("$b is the Maximum Number");
    }
}
```

```
}  
else{  
    print("$c is the Maximum Number");  
}
```

```
// Loop:  
// 1. Print the multiplication table of a number till 10.  
// Example: 2 x 1 = 2  
int table = 13;  
for(int i = 1; i <= 10; i++){  
    int value = table * i;  
    print("$table x $i = $value");  
}
```

```
// 2. Calculate the sum of first 20 Odd numbers.  
int sum = 0;  
for(int j = 1; j <= 19; j = j + 2){  
    sum = sum + j;  
}  
print("The Sum of first 20 Odd numbers is $sum");
```

```
// 3. Calculate the factorial of a number.  
// Example: Factorial of 5 is 120.  
// Explanation: 1*2*3*4*5 = 120  
int facNum = 8;  
int factorial = 1;  
for (int k = 1; k <= facNum; k++) {  
    factorial = factorial * k;  
  
}  
print("The Factorial of a Number $facNum is $factorial");
```

```
// 4. Check if the given number is prime or composite.  
int number = 7;  
for(int y = 2; y <= number / y; y++){  
    if(number % y == 0){
```

```
    print("$number is a Composite");  
}  
else{  
    print("$number is a Prime");  
}  
}  
}
```

## **Output**

Coordinate Point of X and Y is -4 and -5 lies in Third Quadrant

15 is the Maximum Number

13 x 1 = 13  
13 x 2 = 26  
13 x 3 = 39  
13 x 4 = 52  
13 x 5 = 65  
13 x 6 = 78  
13 x 7 = 91  
13 x 8 = 104  
13 x 9 = 117  
13 x 10 = 130

The Sum of first 20 Odd numbers is 100

The Factorial of a Number 8 is 40

7 is a Prime