**ASSIGNMENT- 1**

**ARITHMETIC OPERATORS:**

void main()

{

    int a = 10;

    int b = 20;

    // Adding a and b

    var c = a + b;

    print("Sum : $c");

    // Subtracting a and b

    var d = a - b;

    print("Difference : $d");

    // Using unary minus

    var e = -d;

    print("Negation of difference $e");

    // Multiplication of a and b

    var f = a \* b;

    print("Product : $f");

    // Part 1. Division of a and b

    var g = b / a;

    print("Quotient : $g");

    // Part 2. Using ~/ to divide a and b

    var h = b ~ / a;

    print("Quotient : $h");

}

**RELATIONAL OPEARTORS:**

void main()

{

int a = 10;

    int b = 20;

//Greater between a and b

    var c = a > b;

    print("a is greater than b is $c");

   // Smaller between a and b

    var d = a < b;

    print("a is smaller than b is $d");

   // Greater than or equal to between a and b

    var e = a >= b;

    print("a is greater than b is $e");

    // Less than or equal to between a and b

    var f = a <= b;

    print("a is smaller than b is $f");

    // Equality between a and b

    var g = b == a;

    print("a and b are equal is $g");

    // Unequality between a and b

    var h = b != a;

    print("a and b are not equal is $h");

 }

**TYPE TEST OPERATORS:**

void main()

{

    String a = 'GFGK';

    double b = 5.6;

    // Using is to compare

    print(a is String);

    // Using is! to compare

    print(b is !int);

}

**BITWISE OPEARTORS:**

void main()

{

    int a = 10;

    int b = 20;

    // Performing Bitwise AND on a and b

    var c = a & b;

    print(c);

    // Performing Bitwise OR on a and b

    var d = a | b;

    print(d);

    // Performing Bitwise XOR on a and b

    var e = a ^ b;

    print(e);

    // Performing Bitwise NOT on a

    var f = ~a;

    print(f);

    // Performing left shift on a

    var g = a << b;

    print(g);

    // Performing right shift on a

    var h = a >> b;

    print(h);

}

**CONDITIONAL OPEARTORS:**

void main()

{

    int a = 10;

    int b = 20;

    // Conditional Statement

    var c = (a < 10) ? "Statement is Correct, Geek" : "Statement is Wrong, Geek";

    print(c);

    // Conditional statement

    int n;

    var d = n ? ? "n has Null value";

    print(d);

    // After assigning value to n

    n = 10;

    d = n ? ? "n has Null value";

    print(d);

}