DAY 7

PYTHON PROGRAMMING

OPERATORS

→ BINARY OPERATORS → require two operands.

→ ARITHMETIC OPERATORS → +, -, *, /, //, %, **

→ ASSIGNMENT OPERATORS →

= Assignment	*= Assignpdt
/= Assign quotient	%= Assign Remainder
+= Assign sum	**= Assign Exponend
-= Assign diff.	//= Assign flour divisi

→ Relational operators → <, >, <=, >=, ==, !=

→ Identity operators → is, is not

→ Bitwise operators → & Bitwise AND; ^ Bitwise exclusive OR (XOR)
| Bitwise OR.

→ Shift operators → << shift left ; >> shift Right

→ Logical operators → OR, AND, NOT

→ Membership operators → in, not in.

CONDITIONAL STATEMENTS

→ THE if statement

```
if <conditional expression>:
    statement
    [statements]
```

```
# n = int(input())
if n > 0:
    print(f'{n} is a positive number')
print('statement outside the cond^l')
```

```
#  x = 1
   total = 0
   # start of if statement
   if x != 0:
       total += x
       print(total)  # end of if statement
   print("This is always executed")
```

→ The if-else statement

```
n = int(input())
if n > 0:
    print('Positive')
else:
    print('Not Positive')
print("This statement always execute")
```

→ The if-elif statements

→ Nested if statements

```
num1 = 1.5
num2 = 6.5
sum = num1 + num2
print('The sum of {0} and {1} is {2}'
      .format(num1, num2, sum))
```

(Place holder)

```
# check if even or odd
n = int(input("Enter no."))
if num%.2 == 0:
    print("{0} is even".format(n))
else:
    print("{0} is odd".format(n))
```

```
# Prog. to find Area of a Triangle
# a=5
# b=7
# c=4
```
No use.

```
a = float(input('enter first side:'))
b = float(input('enter 2nd side:'))
c = float(input('enter 3rd side:'))
s = (a+b+c)/2        # semiperimeter
area = (s*(s-a)*(s-b)*(s-c))**0.5
print('area of the triangle is', area)
```

```
# Swop two variables.
x = 2
y = 5
temp = x
x = y
y = temp
print('the value of x after swapping: {}'.format(x))
print('the values of y after swapping: {}'.format(y))
```