

ASSIGNMENT 1

DATA STRUCTURE AND ALGORITHM

1. Write a python program that takes two numbers as the input and print the result of Addition, Subtraction, Multiplication, Division of the two numbers.

```
num1=int(input("Enter 1st number:"))
num2=int(input("Enter 2nd number:"))
print("Addition", num1 + num2)
print("Subtraction:", num1 - num2)
print("Multiplication:", num1 * num2)
print("Division:", num1 / num2)
```

Output: Enter 1st number:4
Enter 2nd number:2
Addition 6
Subtraction: 2
Multiplication: 8
Division: 2.0

2. Write a python program that takes two numbers as the input such as X and Y and print the result of X^Y (X to the power of Y).

```
X=int(input("Enter 1st number:"))
Y=int(input("Enter 2nd number:"))
print("X to the Power Y is:",X**Y)
```

Output: Enter 1st number:2
Enter 2nd number:4
X to the Power Y is: 16