

# 1. Addition:

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ls  
APC.c APC.h Addition.c Division.c Modulus.c Multiplication.c Subtraction.c a.out main.c  
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ gcc *.c  
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out 165348977915646587 + 56797944113265446564  
|-----|  
Addition of Two Numbers  
|-----|  
  
Operand-1      ->      165348977915646587  
  
Operator       ->      +  
  
Operand-2      ->      56797944113265446564  
|-----|  
  
Result         ->      56963293091181093151  
|-----|  
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out -165348977915646587 + 56797944113265446564  
|-----|  
  
Addition of Two Numbers  
|-----|  
  
Operand-1      ->      -165348977915646587  
  
Operator       ->      +  
  
Operand-2      ->      56797944113265446564  
|-----|  
  
Result         ->      56632595135349799977  
|-----|
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_APC$ ./a.out 165348977915646587 + -56797944113265446564
```

#### Addition of Two Numbers

```
Operand-1    ->    165348977915646587
```

```
Operator     ->    +
```

```
Operand-2    ->    -56797944113265446564
```

```
Result       ->    -56632595135349799977
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_APC$ ./a.out -165348977915646587 + -56797944113265446564
```

#### Addition of Two Numbers

```
Operand-1    ->    -165348977915646587
```

```
Operator     ->    +
```

```
Operand-2    ->    -56797944113265446564
```

```
Result       ->    -56963293091181093151
```

## 2. Subtraction:

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out 165348977915646587 - 56797944113265446564
```

```
|-----|
```

```
Subtraction of Two Numbers
```

```
|-----|
```

```
Operand-1      ->    165348977915646587
```

```
Operator       ->    -
```

```
Operand-2      ->    56797944113265446564
```

```
|-----|
```

```
Result         ->    -56632595135349799977
```

```
|-----|
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out -165348977915646587 - 56797944113265446564
```

```
|-----|
```

```
Subtraction of Two Numbers
```

```
|-----|
```

```
Operand-1      ->    -165348977915646587
```

```
Operator       ->    -
```

```
Operand-2      ->    56797944113265446564
```

```
|-----|
```

```
Result         ->    -56963293091181093151
```

```
|-----|
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out 165348977915646587 - -56797944113265446564
```

### Subtraction of Two Numbers

```
Operand-1    ->    165348977915646587
```

```
Operator      ->    -
```

```
Operand-2    ->    -56797944113265446564
```

```
Result        ->    56963293091181093151
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out -165348977915646587 - -56797944113265446564
```

### Subtraction of Two Numbers

```
Operand-1    ->    -165348977915646587
```

```
Operator      ->    -
```

```
Operand-2    ->    -56797944113265446564
```

```
Result        ->    56632595135349799977
```

### 3. Multiplication:

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_AP$ ./a.out 165348977915646587 x 56797944113265446564
```

Multiplication of Two Numbers

Operand-1 -> 165348977915646587

Operator -> x

Operand-2 -> 56797944113265446564

Result -> 9391482006838457394733812599357477068

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_AP$ ./a.out -165348977915646587 x 56797944113265446564
```

Multiplication of Two Numbers

Operand-1 -> -165348977915646587

Operator -> x

Operand-2 -> 56797944113265446564

Result -> -9391482006838457394733812599357477068

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_AP$ ./a.out -165348977915646587 x -56797944113265446564
```

Multiplication of Two Numbers

Operand-1 -> -165348977915646587

Operator -> x

Operand-2 -> -56797944113265446564

Result -> 9391482006838457394733812599357477068

# 4. Division:

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_APc$ ./a.out 165348977915646587 / 56797944113265446564
|-----|
Division of Two Numbers
|-----|
Operand-1      ->    165348977915646587
Operator        ->    /
Operand-2      ->    56797944113265446564
|-----|
Result         ->    0
|-----|
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_APc$ ./a.out -100000000 / 3
|-----|
Division of Two Numbers
|-----|
Operand-1      ->    -100000000
Operator        ->    /
Operand-2      ->    3
|-----|
Result         ->    -33333333
|-----|
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_APc$ ./a.out -100000000 / -3
|-----|
Division of Two Numbers
|-----|
Operand-1      ->    -100000000
Operator        ->    /
Operand-2      ->    -3
|-----|
Result         ->    33333333
|-----|
```

# 5. Modulus:

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out 165348977915646587 % 56797944113265446564
```

Modulus of Two Numbers

Operand-1 → 165348977915646587

Operator → %

Operand-2 → 56797944113265446564

Result → 165348977915646587

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out -100000000 % 3
```

Modulus of Two Numbers

Operand-1 → -100000000

Operator → %

Operand-2 → 3

Result → -1

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out 100000000 % -3
```

```
|-----|  
Modulus of Two Numbers  
|-----|
```

```
Operand-1      ->      100000000  
|-----|
```

```
Operator       ->      %  
|-----|
```

```
Operand-2      ->      -3  
|-----|
```

```
Result         ->      1  
|-----|
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out -100000000 % -3
```

```
|-----|  
Modulus of Two Numbers  
|-----|
```

```
Operand-1      ->      -100000000  
|-----|
```

```
Operator       ->      %  
|-----|
```

```
Operand-2      ->      -3  
|-----|
```

```
Result         ->      -1  
|-----|
```

# 6. Error Handling:

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out
```

```
-----  
ERROR: ./a.out : INVALID ARGUMENTS
```

```
USAGE:
```

```
Addition      : ./a.out <operand1> < operator ( + ) > <operand2>  
Subtraction   : ./a.out <operand1> < operator ( - ) > <operand2>  
Multiplication : ./a.out <operand1> < operator ( x/X ) > <operand2>  
Division       : ./a.out <operand1> < operator ( / ) > <operand2>  
Modulus        : ./a.out <operand1> < operator ( % ) > <operand2>
```

```
-----
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out 14664861684544 / 0
```

```
ERROR: Cannot divide by zero(0).
```

```
ERROR: Division Failed!
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator(APC$ ./a.out 14664861684544 % 0
```

```
Error: modulus 0 is not possible.
```

```
ERROR: Modulus Failed!
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_APC$ ./a.out 14664861684544 = 654643141
```

---

```
ERROR: ./a.out 14664861684544 = 654643141 : INVALID ARGUMENTS
```

```
USAGE:
```

```
Addition      : ./a.out <operand1> < operator ( + ) > <operand2>
Subtraction   : ./a.out <operand1> < operator ( - ) > <operand2>
Multiplication : ./a.out <operand1> < operator ( x/X ) > <operand2>
Division      : ./a.out <operand1> < operator ( / ) > <operand2>
Modulus       : ./a.out <operand1> < operator ( % ) > <operand2>
```

---

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_APC$ ./a.out -146-6486th1684544 + 654+6s43141
```

---

```
ERROR: ./a.out -146-6486th1684544 + 654+6s43141 : INVALID ARGUMENTS
```

```
USAGE:
```

```
Addition      : ./a.out <operand1> < operator ( + ) > <operand2>
Subtraction   : ./a.out <operand1> < operator ( - ) > <operand2>
Multiplication : ./a.out <operand1> < operator ( x/X ) > <operand2>
Division      : ./a.out <operand1> < operator ( / ) > <operand2>
Modulus       : ./a.out <operand1> < operator ( % ) > <operand2>
```

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