

# 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_APC$ ./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_APC$ ./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_APC$ ./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 -1000000000 % 3
|-----|
Modulus of Two Numbers
|-----|
Operand-1    ->    -1000000000
Operator     ->    %
Operand-2    ->    3
|-----|
Result       ->    -1
|-----|
```

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_APC$ ./a.out 1000000000 % -3
```

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

```
|-----|  
Operand-1    ->    1000000000
```

```
Operator      ->    %
```

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

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

```
ashithadmin@LAPTOP-OAE19R6D:~/Projects/Arbitrary_Precision_calculator_APC$ ./a.out -1000000000 % -3
```

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

```
|-----|  
Operand-1     ->   -1000000000
```

```
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>  
-----
```