Project Summary

Requirements:

In order to run the application, python 3.4 or newer must be installed on your computer.

The application was built on a UNIX operating system so a few changes are necessary in order for it to run on a Windows computer.

Author:

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Operations:

The implemented operations are:

- ADDITION
- SUBTRACTION
- MULTIPLICATION
- INTEGER DIVISION

For every operation the numbers must be in the correct base, the program will check for this i.e. $2, 3, \ldots, 16$

Conversions:

The implemented conversions are:

- Successive divisions for integer numbers
- Rapid conversions

User Interface

The application is a console based application, the user interface consists of a menu alongside an input possibility.

```
Please choose an operation:

1. Addition
2. Subtraction
3. Multiplication by one digit
4. Division by one digit
5. Rapid Conversions
6. Successive divisions / multiplications conversion method
0. Exit
~:
```

The structure of the program:

```
MAIN.PY
-> UI.PY
-> NUMBER.PY
```

For the operations you will be prompted by a couple of input fields:

```
Insert the first number: 123
Insert the second number: 1234
Insert the first number's base: 10
Insert the second number's base: 10
```

The result will be printed to the screen:

```
1357
Please choose an operation:
1. Addition
2. Subtraction
3. Multiplication by one digit
4. Division by one digit
5. Rapid Conversions
6. Successive divisions / multiplications conversion method
0. Exit
~:
```

For the conversions you will be prompted by a couple of input fields different than the ones before:

```
Insert the number: 123,42
Insert the number's base: 8
Insert the conversion base: 16
```

The result will be printed to the screen:

```
53,88

Please choose an operation:

1. Addition
2. Subtraction
3. Multiplication by one digit
4. Division by one digit
5. Rapid Conversions
6. Successive divisions / multiplications conversion method
0. Exit
~:
```