Calculator using Python-Flask

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CONTENTS

Abstract—**This manual shows how to build a calculator using Python-Flask. The user interface is through a browser while the computations are done in Python.**

1 PYTHON-FLASK

Flask is Python framework for creating web applications.

1.1 Installation:

```
sudo apt-get update
sudo apt-get install python-pip
sudo pip install flask
```

1.2 Calculator UI in HTML: Download the following code and open it using a browser. You will see the calculator UI.

1.3 Save **calc.html** in a folder called **templates**.

1.4 Type the following code in a file called **calc_ui.py**.

1.5 Make sure that the python file is outside the **templates** directory. Now type

```
python calc_ui.py
```

on the terminal. An address will be displayed on the terminal.

1.6 Enter the above address in a browser. You should see the calculator UI.

2 PYTHON ENGINE

2.1 Write a program to concatenate 2 strings.
Solution:

```
#Program using simple
    concatenation

str1= input("Enter the first
    string: ");
str2= input("Enter the second
    string: ");
con = str1+str2;
print("\nString after
    concatenation: ",con);
```

2.2 Write a program to concatenate 3 strings.

2.3 Use the **eval** function in python to add, subtract, multiply and divide two numbers using Problem 2.2
Solution:

```
str1=input("Enter the first no:
    ");
str2= input("select operation:
    ");
str3=input("Enter the second no
    : ");
con = str1+str2+str3;
print("Inputs: ",con);
result = eval(con);
print("Sum: ", result);
```