

PERSONAL FINANCE CALCULATOR

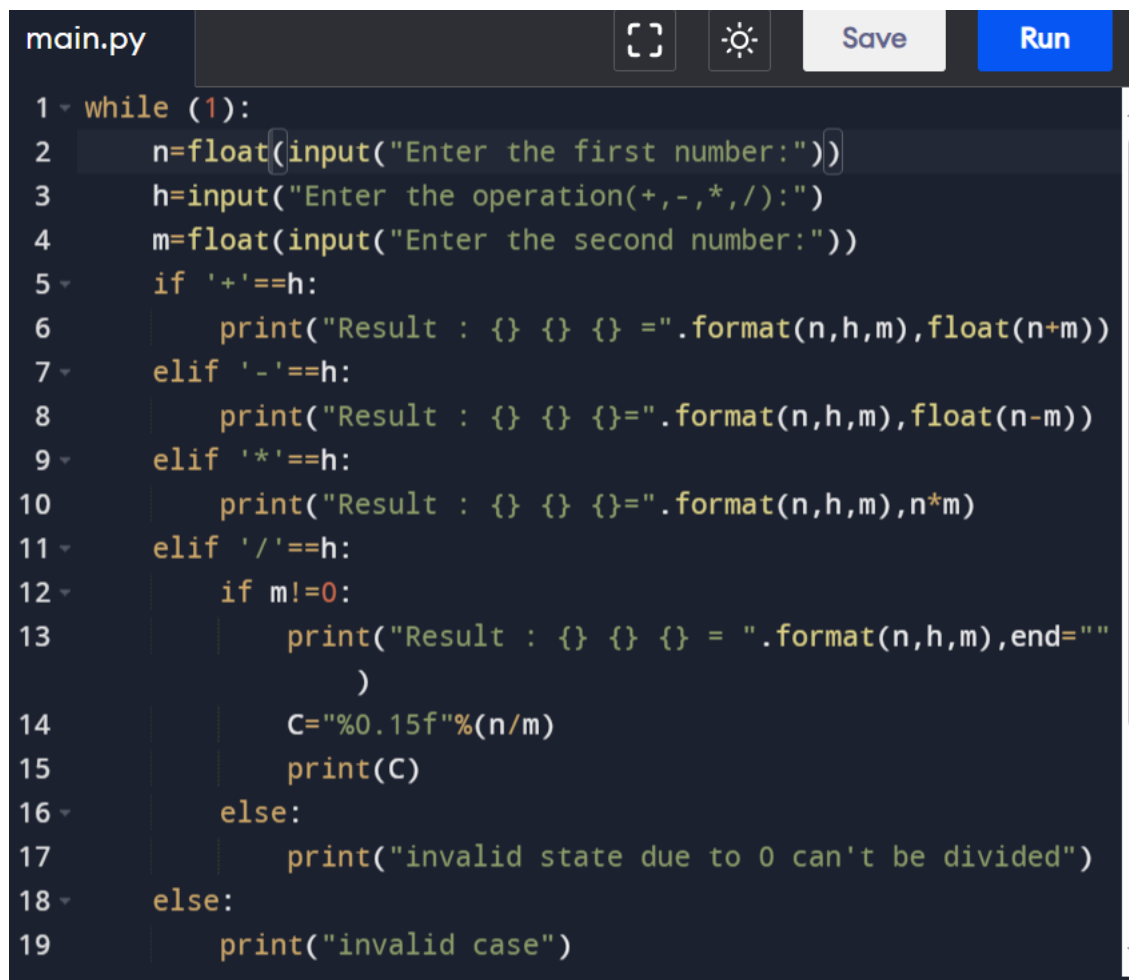
DATE: 7 JUNE 2024

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DETAILS OF PROJECT: I am implantiing this project by using python programming language

CODE:

A screenshot of a code editor window titled 'main.py'. The editor has a dark background with light-colored text. At the top right, there are three buttons: a square icon, a sun icon, and a 'Save' button. To the right of these is a blue 'Run' button. The code is a Python script for a calculator. It starts with a 'while (1):' loop. Inside the loop, it prompts the user to enter a first number, an operation (+, -, *, /), and a second number. It then uses if-elif statements to perform the operation. For addition, subtraction, and multiplication, it uses the 'format' method to print the result. For division, it checks if the second number is not zero; if so, it prints the result with 15 decimal places using 'f-string' formatting. If the second number is zero, it prints an error message. If the operation is invalid, it prints 'invalid case'.

```
main.py
1 while (1):
2     n=float(input("Enter the first number:"))
3     h=input("Enter the operation(+,-,*,/):" )
4     m=float(input("Enter the second number:"))
5     if '+'==h:
6         print("Result : {} {} {} = ".format(n,h,m),float(n+m))
7     elif '-'==h:
8         print("Result : {} {} {} = ".format(n,h,m),float(n-m))
9     elif '*'==h:
10        print("Result : {} {} {} = ".format(n,h,m),n*m)
11    elif '/'==h:
12        if m!=0:
13            print("Result : {} {} {} = ".format(n,h,m),end="")
14            )
15            C="%0.15f"%(n/m)
16            print(C)
17        else:
18            print("invalid state due to 0 can't be divided")
19    else:
20        print("invalid case")
```

```
c=input("do you want to continue(y/n):")
if c == 'n':
    break
elif c=='y':
    print()
else:
    break
```

INPUT & OUTPUT:

Output

```
Enter the first number:5
Enter the operation(+,-,*,/):+
Enter the second number:6
Result : 5.0 + 6.0 = 11.0
Do you want to continue(y/n):y
```

```
Enter the first number:11
Enter the operation(+,-,*,/):-
Enter the second number:89.56
Result : 11.0 - 89.56= -78.56
Do you want to continue(y/n):y
```

```
Enter the first number:89
Enter the operation(+,-,*,/):*
Enter the second number:5
Result : 89.0 * 5.0= 445.0
Do you want to continue(y/n):y
```

```
Enter the first number:98
Enter the operation(+,-,*,/):/
Enter the second number:6
Result : 98.0 / 6.0 = 16.333333333333332
Do you want to continue(y/n):n

=== Code Execution Successful ===
```

EXPLONATION:

In this program I have implemented **personal finance calculator** which is used to calculate the arithmetic operation, In this way I have taken it as an input from the user and displayed the output.

CONCLUSION:

In this way I have taken it as an input from the user and displayed the output.