

Python

Python is a programming language.

Python Syntax

- Input
- Casting
- Functions
- if then else

Functions:

```
# This function adds two numbers
def add(x, y):
    return x + y

# This function subtracts two numbers
def subtract(x, y):
    return x - y

# This function multiplies two numbers
def multiply(x, y):
    return x * y

# This function divides two numbers
def divide(x, y):
    return x / y

print("Select operation.")
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")

# Take input from the user
```

User Events & Code:



```
# take input from the user
choice = input("Enter choice(1/2/3/4):")

num1 = int(input("Enter first number: "))
num2 = int(input("Enter second number: "))

if choice == '1':
    print(num1,"+",num2,"=", add(num1,num2))

elif choice == '2':
    print(num1,"-",num2,"=", subtract(num1,num2))

elif choice == '3':
    print(num1,"*",num2,"=", multiply(num1,num2))

elif choice == '4':
    print(num1,"/",num2,"=", divide(num1,num2))
else:
    print("Invalid input")
```

Results Screen Shot:

Output

```
Select operation.  
1.Add  
2.Subtract  
3.Multiply  
4.Divide  
Enter choice(1/2/3/4): 3  
Enter first number: 15  
Enter second number: 14  
15 * 14 = 210
```

Assignment: Make a text calculator

- Use the above code sample
- Edit as needed
- Use repl.it as the IDE (Interactive Development Environment)
- Test all functions for functionality & debugging
- Email link to: ddiem@stjohnb.com when finished

Next: Repl.it IDE and AppJar Graphic Objects

- Simple Calc
- Calc with Loop
- Graphic interface, AppJar Event based Calc

