main

July 31, 2024

```
[]: calculation = str(input("enter your calculation"))
[]: bracketIndex = []
     for index in range(0,len(calculation)):
         if calculation[index] == '(':
             bracketIndex.append(index)
         if calculation[index] == ')':
             bracketIndex.append(index)
     bracketSignIndex = []
     bracketCalculation = calculation[bracketIndex[0]+1:bracketIndex[1]]
     print(bracketCalculation)
     for index in range(0,len(bracketCalculation)):
         if bracketCalculation[index] == '+' or bracketCalculation[index] == '-' or__
      dbracketCalculation[index] == '/' or bracketCalculation[index] == '*':
            bracketSignIndex.append(index)
     # print(bracketCalculation[bracketSignIndex[0]:])
     bracketCalculationNumber = [int(bracketCalculation[:
      abracketSignIndex[0]]),int(bracketCalculation[bracketSignIndex[0]+1:])]
     print(bracketCalculationNumber)
     if bracketCalculation[bracketSignIndex[0]] == '+':
         result = bracketCalculationNumber[0]+bracketCalculationNumber[1]
         print(f'result is {result}')
     if bracketCalculation[bracketSignIndex[0]] == '-':
         result = bracketCalculationNumber[0]-bracketCalculationNumber[1]
         print(f'result is {result}')
     if bracketCalculation[bracketSignIndex[0]] == '/':
         result = float(bracketCalculationNumber[0]/bracketCalculationNumber[1])
         print(f'result is {result}')
     if bracketCalculation[bracketSignIndex[0]] == '*':
         result = bracketCalculationNumber[0]*bracketCalculationNumber[1]
         print(f'result is {result}')
     newCalculation = calculation.replace('('+bracketCalculation+")",str(result))
     print(newCalculation)
```

6*7 [6, 7]

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result is 42
2+3-42
```

```
[]: signIndex = [0,len(newCalculation)]
numberList = []
mainCalculation:int = 0
for index in range(0,len(newCalculation)):
    if newCalculation[index] == '+' or newCalculation[index] == '-' or undewCalculation[index] == '-' :
        signIndex.append(index)
signIndex.sort()
print(signIndex)

for index in range(1,len(signIndex)):
    numberList.append(newCalculation[signIndex[index-1]:signIndex[index]])
for item in numberList:
    mainCalculation+=int(item)
print(mainCalculation)
```

[0, 1, 3, 6] -37