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#List
#list problem
n=int(input("enter the list range"))
l=[]
for i in range(n):
   s=input()
   l.append(s)
print(l)
print("remove function")
s=input("enter a element to remove")
l.remove(s)
print(l)
s1=input("enter an element to append")
l.append(s1)
print(l)
print("sort")
l.sort()
print(l)
print("after pop")
l.pop()
print(l)
print("after reverse")
print(l[ : : -1])

#Calculator

def add(x, y):
   return x + y
def subtract(x, y):
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    return x - y
def multiply(x, y):
    return x * y
def divide(x, y):
    return x / y

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

while True:
    choice = input("Enter choice(1/2/3/4): ")
    if choice in ('1', '2', '3', '4'):
        num1 = float(input("Enter first number: "))
        num2 = float(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':
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        print(num1, "/", num2, "=", divide(num1, num2))



    next_calculation = input("Let's do next calculation? (yes/no): ")
    if next_calculation == "no":
      break

  else:
    print("Invalid Input")

#String operations


s=input("enter a string")
print("concatenate")
s1=input("enter a string")
s+=s1
print(s)
print("reverse")
print(s[ : : -1])
print("slicing")
s3=int(input("enter the range under " + str(len(s))))
#Q:why pythhon is a popular language?
#Python uses an simplified syntax with an
#emphasis on natural language for much easier
#learning curve for beginners and because python
#Is free to use
#Q: What are the other frameworks used in python
#Frameworks - Pyramid, turbogear, web2py, cherrypy,
#Flask, sanic, django
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#Q: Full form of WSGI

#WSGI - Web Server Gateway Interface

Footer