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print("<----- I if-else ----->")
my_string = input("-->> Enter a String: ")
half_part = int(len(my_string) / 2)

first_half = my_string[ :half_part]
second_half = my_string[half_part: ]

#To check whether the given string is symmetrical or not.
if len(my_string)%2 == 0 :
  if first_half == second_half :
      print("{0} --> SYMMETRICAL".format(my_string))
  else :
      print("{0} --> NOT SYMMETRICAL".format(my_string))
else :
  print("{0} --> NOT SYMMETRICAL".format(my_string))

#To check whether the given string is palindrome or not.
i=0
for i in range(len(my_string)):
   if my_string[i] == my_string[-1-i]:
       print("{0} --> PALINDROME\n".format(my_string))
       break
else:
   print("{0} --> Not PALINDROME\n".format(my_string))

print("<----- II for loop ----->")
matrix_1 = []
matrix_2 = []
result=[]
rows = int(input("-->> Enter the number of rows for the matrices: "))
columns = int(input("-->> Enter the number of columns for the matrices: "))
print()

print("--->>> Enter the values for the First Matrix")
for i in range(rows):
   a =[]
   for j in range(columns):
        a.append(int(input("-->> Enter the elements for the {0} row of first
matrix: ".format(i+1))))
   matrix_1.append(a)
print("--->>> Enter the values for the Second Matrix")
for i in range(rows):
   b =[]
   for j in range(columns):
        b.append(int(input("-->> Enter the elements for the {0} row of second
matrix: ".format(i+1))))
   matrix_2.append(b)

print("--> FIRST MATRIX")
for i in range(rows):
   for j in range(columns):
       print(matrix_1[i][j], end = " ")
   print()

print("--> SECOND MATRIX")
for i in range(rows):
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    for j in range(columns):
        print(matrix_2[i][j], end = " ")
    print()

print("-->> MULTIPLICATION OF THE MATRICES")
for i in range(rows):
    c = []
    for j in range(columns):
        c.append(0)
    result.append(c)
for i in range(rows):
    for j in range(columns):
        result[i][j] += matrix_1[i][j] * matrix_2[i][j]
for i in range(rows):
    for j in range(columns):
        print(result[i][j], end = " ")
    print()
print()

print("<----- III while loop ----->")
elements = []
num = int(input("-->> Enter the number of elements you want to add: "))
for i in range(num):
    a = int(input("-->> Enter {0} Elemment: ".format(i+1)))
    elements.append(a)
print("")

print("ELEMENTS <-----{0}----->".format(elements))
i=0
sum=0
while i < num:
 if elements[i]%2 == 0:
    sum += elements[i]
 i += 1
print()

print("Addition of even numbers from the given elements:",sum)
print()

print("-*-*-*-*-*-END OF PRACTICAL 8-*-*-*-*-*-")
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