Hands-on_Strings

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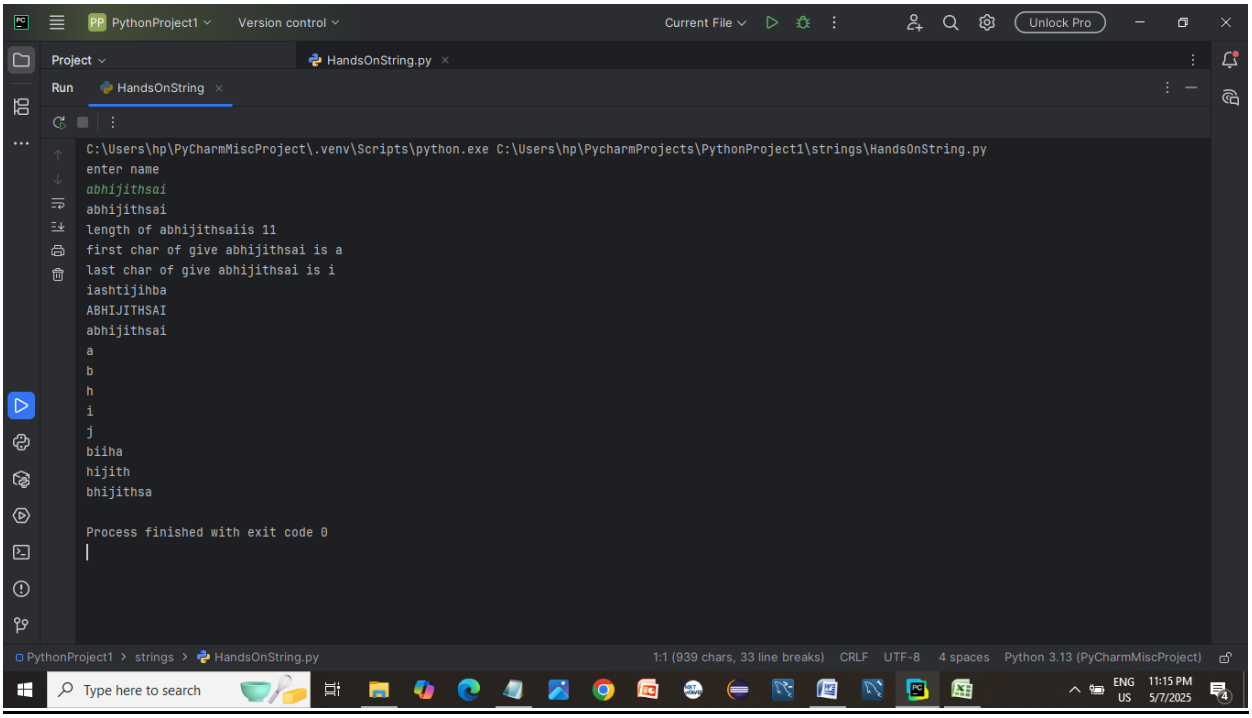
'''
# Exercise 1: Take a string input from the user and print it
# Exercise 2: Find the length of the string
# Exercise 3: Access the first and last characters of the string
# Exercise 4: Print the string in reverse
# Exercise 5: Convert the string to uppercase and lowercase
# Exercise 6: Print the first 5 characters of the string
# Exercise 7: Print every second character from the string
# Exercise 8: Slice the string from index 2 to 7
# Exercise 9: Print the string excluding the first and last characters
'''

# #exer1
name=input("enter name\n")
print(name)
#exer2
print("length of "+name+ "is "+str(len(name)))
#exer3
print("first char of give " + name +" is "+ name[0])
print("last char of give " + name +" is "+ name[len(name)-1])
#exer4
print(name[::-1])
#exer5
print(name.upper())
print(name.lower())
#exer6
for i in range(5):
   print(name[i])
#exer7
print(name[1::2])
#exer8
print(name[2:8])
#exer9
print(name[1:len(name)-1])
```

Output)

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'''Exercise 10: Count how many times a letter appears in the string
# Exercise 11: Replace all spaces with hyphens
# Exercise 12: Check if the string starts with a particular word
# Exercise 13: Find the index of the first occurrence of a substring
# Exercise 14: Remove leading and trailing whitespace
# Exercise 15: Use f-strings to print "My name is X and I am Y years old"
# Exercise 16: Format a float to display only 2 decimal places
# Exercise 17: Align a string to the center, left, and right using `format()`
or `f-string`
# Exercise 18: Check if a string is a palindrome (same forwards and
backwards)
# Exercise 19: Check if the string contains only digits
# Exercise 20: Check if two strings are anagrams (same letters, different
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order)'''
#exer10
name="abhijithsai"
dict_a={}
for i in name:
    if i in dict_a:
        dict_a[i]=dict_a[i]+1
    else:
        dict_a[i]=1
print(dict_a)
#exer11
sent="Hello my name is Vedantham Abhijith Sai.Good morning every one."
print(sent.replace(" ","-"))
#exer12
print(str(sent.startswith("Hello"))+", sent starts with Hello")
#exer13
print("Vedantham is at index "+str(sent.find("Vedantham")))
#exer14
sentence="   abhijith sai    "
print(sentence.strip())
# exer15
name="abhijithsai"
age=23
print(f"my name is {name} and I am {age} years old")
#exer16
float_val=3.14244
print(f"formatted a fioalt_num to 2 decimals values is "
+str(round(float_val,2)))
#exer17
text="hello World!"
print(f"{text:^20}")
print(f"{text:<20}")
print(f"{text:>20}")
#exer18
name="abhijithsai"
nameRev=name[::-1]
if(name==nameRev):
    print("Palindrome")
else:
    print("not palindromee")
#exer19
string="123a"
temp=0
for i in string:
    if(i.isalpha()):
        temp=1
        break
if(temp==0):
    print(string+", string contains only digits")
else:
    print(string+", string contains other than digits")
#exer20
name1=input("enter name1\n")
name2=input("enter name2\n")
list_a=[]
list_b=[]
for i in name1:
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    list_a.append(i)
for i in name2:
    list_b.append(i)
list_b.sort()
list_a.sort()
if(list_a == list_b):
    print("both are angarams")
else:
    print("not angarams")
```

Output)