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# 1. The following line won't run because of a syntax error
# Fixed syntax error
print("hi")
#2. Exercise 2
# The following lines won't run properly,
# even if the syntax error in the line above is corrected,
# because of a run-time error
# Fixed runtime error
print("hello")
# 3. Display a string (greeting message) directly
print("Hello, welcome to Python!")
# 4. Display the contents of a string variable
message = "This is a string variable"
print(message)
# 5. Display the string which contains single quotes
print("Indian's")
# 6. Display the string which contains Double Quotes
print('Students, "Welcome to SOIS".')
#7. Read two numbers and perform calculations
num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))
# Calculations
sum value = num1 + num2
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difference = num1 - num2
product = num1 * num2
quotient = num1 / num2
remainder = num1 % num2
power = num1 ** num2
print(f"Sum: {sum value}")
print(f"Difference: {difference}")
print(f"Product: {product}")
print(f"Quotient: {quotient}")
print(f"Remainder: {remainder}")
print(f"Power: {power}")
# 8. Check if num1 is an integer
if num1.is integer():
  print("num1 is an integer.")
else:
  print("num1 is not an integer.")
# 9. Convert num1 to an integer
num1 = int(num1)
# 10. Find datatype for variables
print(type(num1))
print(type(num2))
# 11. Read a float value and print the number rounded to 2 decimal places
float_value = float(input("Enter a float value: "))
print(f"Rounded value: {round(float value, 2)}")
# 12. Read a float value and print the absolute value
print(f"Absolute value: {abs(float value)}")
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# 13. Store different types of values in variables
string value = "Hello"
numeric value = 42
complex value = 1 + 2j
list value = [1, 2, 3]
dict value = {"key": "value"}
set value = \{1, 2, 3\}
tuple value = (1, 2, 3)
# 14. Find the data type for the above variables
print(type(string value))
print(type(numeric value))
print(type(complex value))
print(type(list value))
print(type(dict value))
print(type(set value))
print(type(tuple value))
# 15. Display the number of letters in the string
greeting = "Welcome to Python Prgm"
print(len(greeting))
# 16. Read first name and last name from the user and combine them
first name = input("Enter your first name: ")
last name = input("Enter your last name: ")
full name = first name + " " + last name
greeting message = "Hello, " + full name + "!"
print(greeting message)
# 17. Display the string with space
print(f"{first name} {last name}")
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# 18. Display first two characters from the name
print(full_name[:2])
# 19. Display last three characters from the name
print(full name[-3:])
# 20. Display 3rd character to last character
print(full_name[2:])
#21. Display 3rd to 5th character
print(full name[2:5])
# 22. Create a list of food with two elements
food = ["Golgoppa", "brownie"]
# 23. Add one more to the food list
food.append("dosa")
# 24. Add two more food strings
food.extend(["pasta", "pizza"])
# 25. Count total number of items in the list
print(len(food))
# 26. Print the first two items in food using slicing notation
print(food[:2])
# 27. Print the last item in food using index notation
print(food[-1])
# 28. Debug: Check if the number is odd or even
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number = int(input("Enter a number: "))
if number \% 2 == 0:
  print("The number is Even.")
else:
  print("The number is Odd.")
#29. Debug: Convert Centigrade to Fahrenheit
c = float(input("Enter temperature in Centigrade: "))
f = 9 * (c / 5) + 32
print("Temperature in Fahrenheit is:", f)
# 30. Debug: Calculate average of user inputs
count = int(input("Enter the count of numbers: "))
total sum = 0
for in range(count):
  x = int(input("Enter an integer: "))
  total sum += x
avg = total sum / count
print("The average is:", avg)
#31. Prove strings are immutable and lists are mutable
# Strings are immutable
str value = "Hello"
try:
  str value[0] = 'h'
except TypeError as e:
  print(f"Strings are immutable: {e}")
# Lists are mutable
list_value = [1, 2, 3]
list value[0] = 100
print(f"Lists are mutable: {list value}")
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