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ASSIGNMENT 2 IN FUNCTIONS FORM
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# ------ TASK 1 -----
def task1():
  try:
    s = "Hello"
    result1 = s.lower()
    print("Task 1:", result1)
  except Exception as e:
    print(f"Error in Task 1: {e}")
# ----- TASK 2 -----
def task2():
  try:
    s = "HeLLo WoRLd"
    result2 = s.swapcase()
    print("Task 2:", result2)
  except Exception as e:
    print(f"Error in Task 2: {e}")
# ------ TASK 3 -----
def task3():
  try:
    s = "HelloWorld"
    result3 = ""
    for char in s:
      if not char.isupper():
         result3 += char
    print("Task 3:", result3)
  except Exception as e:
    print(f"Error in Task 3: {e}")
# ------ TASK 4 -----
def task4():
  try:
    s = "EngiNEEr"
    upper = 0
    lower = 0
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for char in s:
       if char.isupper():
          upper += 1
       elif char.islower():
          lower += 1
     print("Task 4: Uppercase:", upper, ", Lowercase:", lower)
  except Exception as e:
     print(f"Error in Task 4: {e}")
# ------ TASK 5 ------
def task5():
  try:
    s = "BobCat-Car@2025!"
    result5 = ""
    for char in s:
       if char.isalpha():
          result5 += char
    print("Task 5:", result5)
  except Exception as e:
     print(f"Error in Task 5: {e}")
# ----- TASK 6 -----
def task6():
  try:
    a, b, c = 3, 4, 5
    s = (a + b + c) / 2 # semi-perimeter
     area = (s * (s - a) * (s - b) * (s - c)) ** 0.5
    print("Task 6:", area)
  except Exception as e:
     print(f"Error in Task 6: {e}")
# ------ TASK 7 ------
def task7():
  try:
    names = ["Alice", "Bob", "Charlie", "David"]
    print("Task 7:".center(20, "-"))
    print("Name".center(20, "-"))
    for name in names:
       print(name.ljust(20))
  except Exception as e:
     print(f"Error in Task 7: {e}")
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# ----- TASK 8 -----
def task8():
  try:
    s = " Hello, World! "
    s = s.strip()
    punctuation = ",.!?@#-$%^&*()[]{};:'\"<>/\\|`~"
    result8 = ""
    for char in s:
       if char not in punctuation:
         result8 += char
    result8 = result8.replace(" ", "")
    print("Task 8:", result8)
  except Exception as e:
    print(f"Error in Task 8: {e}")
# ----- TEST RUN -----
if __name__ == "__main__":
  task1()
  task2()
  task3()
  task4()
  task5()
  task6()
  task7()
  task8()
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