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#tech ht (24.01.25)
#question 1
first_name = input("Enter your first name: ")
last_name = input("Enter your last name: ")
college_name = input("Enter your college name: ")
department = input("Enter your department: ")
mobile_number = input("Enter your mobile number: ")

# Concatenate name and college information
full_name = first_name + " " + last_name
college_info = college_name + " Department of " + department

# ASCII value of the name
ascii_name = ", ".join([f"{char}-{ord(char)}" for char in full_name if char != " "])
print("ASCII value name is:", ascii_name)

# ASCII value of the mobile number
ascii_mobile = ", ".join([f"{digit}-{ord(digit)}" for digit in mobile_number])
print("ASCII value of Mobile Number:", ascii_mobile)

# ASCII result of addition
ascii_result = ", ".join([
    f"{full_name[i]}+{mobile_number[i]} = {ord(full_name[i]) + ord(mobile_number[i])}"
    for i in range(len(mobile_number))
])
print("Result of Addition:", ascii_result)
print("SL – Self – Learning")

#question 2
# Get inputs from the user
first_value = int(input("Enter the first value: "))
second_value = int(input("Enter the second value: "))
third_value = int(input("Enter the third value: "))

# Perform arithmetic operations
print("\nArithmetic Operations:")
addition = first_value + second_value
subtraction = first_value - second_value
print(f"Addition – {addition}")
print(f"Subtraction – {subtraction}")

# Display values before swapping
print("\nBefore Swapping:")
print(f"First value – {first_value}")

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print(f"Second value – {second_value}")
print(f"Third Value – {third_value}")
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# Swap values using bitwise XOR
first_value = first_value ^ second_value
second_value = first_value ^ second_value
first_value = first_value ^ second_value
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first_value = first_value ^ third_value
third_value = first_value ^ third_value
first_value = first_value ^ third_value
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# Display values after swapping
print("\nAfter Swapping:")
print(f"First value – {first_value}")
print(f"Second Value – {second_value}")
print(f"Third Value – {third_value}")
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#question 3
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username = input("Enter your username: ")
letters_and_digits = "".join([char for char in username if char.isalnum()])
special_chars = "".join([char for char in username if not char.isalnum()])
print(f"\nHi! Your Entered Input is \"{username}\"")
print(f"Your entered Characters are – {letters_and_digits}")
print(f"Your entered Special Characters are – {special_chars}")
print("\nSL – Self – Learning")
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