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#test program (27.01.25)
#question 1
# Method to validate and encode the input
def userInfo(username, password):
    while not username.isalpha():
        print("Username should not contain numbers and special characters.")
        username = input("Enter username: ")
    while len(password) != 8 or not any(char.isdigit() for char in password) or not any(not
char.isalnum() for char in password):
        print("Password must be 8 characters long and contain at least one number and one
special character.")
        password = input("Enter password: ")
    return username, password
username = input("Enter username: ")
password = input("Enter password: ")
again_password = input("Re-enter the password: ")
while password != again_password:
    print("Passwords do not match. Please try again.")
    password = input("Enter password: ")
    again_password = input("Re-enter the password: ")

department = input("Enter your department: ")
username, password = userInfo(username, password)
encoded_name = 'X' * len(username)
encoded_password = 'X' * len(password)
print(f"Your encoded name is: {encoded_name} – Fresher")
print(f"Your department is: {department}")
print(f"Your password is: {encoded_password}")
print(f"Re-type your password: {encoded_password}")

#question 2
from array import array
elements = input("Enter the elements of the array separated by spaces: ")
arr = array('i', map(int, elements.split()))
print("Original array:", arr)
element_to_remove = int(input("Enter the element to remove: "))
arr = array('i', [x for x in arr if x != element_to_remove])
print(f"Remove all occurrences of {element_to_remove} from the said array:")
print("New array:", arr)


#question 3
# Define the array with limited input size
arr = ["Face", "Prep", "Campus", "Tech", "Solutions"]
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# Print the Non-Inverse Order
print("Your Non-Inverse Order Array is:", arr)

# Print the Inverse Order
print("Your Inverse Order Array is:", arr[::-1])

)
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