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[10] # 3 Use the if statement conditions to write a program to print the letter grade based on an input class score. Use the grading scheme we are using in this class.

# Take a class score as input from the user
class_score = float(input("Enter your class score (0 to 100): "))

# Check and print the letter grade
if class_score >= 90.0:
    print("Your letter grade is: A")
elif class_score >= 80.0:
    print("Your letter grade is: B")
elif class_score >= 70.0:
    print("Your letter grade is: C")
elif class_score >= 60.0:
    print("Your letter grade is: D")
else:
    print("Your letter grade is: F")
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Enter your class score (0 to 100): 87.8
Your letter grade is: B
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[8] # 2 Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons'.

# Take a sentence as input from the user
sentence = input("Enter a sentence: ")

# Replace each occurrence of 'python' with 'pythons'
modified_sentence = sentence.replace("python", "pythons")

# Print the modified sentence
print("Modified sentence:", modified_sentence)
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Enter a sentence: I love playing with python
Modified sentence: I love playing with pythons
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# 1(b). Take two numbers from user and perform at least 4 arithmetic operations on them

# Take two numbers as input from the user
n1 = float(input("Enter the first number: "))
n2 = float(input("Enter the second number: "))

# Perform arithmetic operations
sum_res = n1 + n2
sub_res = n1 - n2
mul_res = n1 * n2

# Check for division by zero
if n2 != 0:
    div_res = n1 / n2
else:
    div_res = "Undefined (Division by zero)"

# Print the results
print(f"The sum of the numbers is: {sum_res}")
print(f"The difference of the numbers is: {sub_res}")
print(f"The product of the numbers is: {mul_res}")
print(f"The division of the numbers is: {div_res}")
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Enter the first number: 2
Enter the second number: 3
The sum of the numbers is: 5.0
The difference of the numbers is: -1.0
The product of the numbers is: 6.0
The division of the numbers is: 0.6666666666666666
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# 1(a). Input the string "Python" as a list of characters from console, delete at least 2 characters, reversetheresultant string, and print it.

# Input string
input_string = "Python"

# Convert string to list of characters
char_list = list(input_string)

# Delete at least 2 characters
char_list = char_list[:-2]

# Reverse the remaining characters
reversed_string = "".join(char_list[::-1])

# Print the result
print(reversed_string)
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htyP
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Github Repo link: https://github.com/Krypton0626/Bigdata