Write a program using function to calculate the simple interest. Suppose the customer is a senior citizen. She is being offered 15 percent rate of interest; he is being offered 12 percent rate of interest for all other customers, the ROI is 10 percent.

Sample Input:

Enter the principal amount: 200000 Enter the no of years: 3

Gender (m/f): m

Is customer senior citizen (y/n): n Sample Output:

Interest: 60000

CODE:

def calculate\_simple\_interest(principal, years, gender, is\_senior\_citizen):

if gender.lower() == 'm' and not is\_senior\_citizen:

rate\_of\_interest = 12

else:

rate\_of\_interest = 15

roi = 10 # Base rate of interest

effective\_rate\_of\_interest = roi + rate\_of\_interest

interest = (principal \* years \* effective\_rate\_of\_interest) / 100

return interest

# Example usage:

principal\_amount = float(input("Enter the principal amount: "))

no\_of\_years = int(input("Enter the number of years: "))

gender = input("Gender (m/f): ")

is\_senior\_citizen = input("Is customer senior citizen (y/n): ").lower() == 'y'

interest = calculate\_simple\_interest(principal\_amount, no\_of\_years, gender, is\_senior\_citizen)

print("Interest:", interest)

OUTPUT:

Enter the principal amount: 200000

Enter the number of years: 3

Gender (m/f): m

Is customer senior citizen (y/n): n

Interest: 132000.0

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