1.write a python program to calculate the area of a rectangle given its length and width

INPUT :

def AreaofRectangle(width, height):

Area = width \* height

print("Area of a Rectangle is: %.2f" %Area)

# Take input of width and height from user

w = float(input('Enter the Width of a Rectangle: '))

h = float(input('Enter the Height of a Rectangle: '))

# Call the function with input values

AreaofRectangle(w, h)

OUTPUT:

Enter the Width of a Rectangle: 12

Enter the Height of a Rectangle: 14

Area of a Rectangle is: 168.00

2. write a python pogram to convert miles to kilometers

INPUT :

def miles\_to\_kilometers(miles):

kilometers = miles \* 1.60934

return kilometers

# Take input of miles from user

miles = float(input('Enter the number of miles: '))

# Convert miles to kilometers

kilometers = miles\_to\_kilometers(miles)

# Print the result

print(f'{miles} miles is equal to {kilometers} kilometers.')

OUTPUT :

Enter the number of miles: 123

123.0 miles is equal to 197.94882 kilometers.

3.write a function to check if a given srting is a palindrome.

INPUT :

def is\_palindrome(s):

"""

Returns True if the given string is a palindrome,

and False otherwise.

"""

s = s.lower()

s = ''.join(c for c in s if c.isalnum())

return s == s[::-1]

# Test the function with some example strings

print(is\_palindrome('racecar')) # True

print(is\_palindrome('hello')) # False

print(is\_palindrome('hello1')) # False

print(is\_palindrome('A man a plan a canal Panama')) # True

OUTPUT :

True

False

False

True

\*\* Process exited - Return Code: 0 \*\*

Press Enter to exit terminal