Mini project

UNIT CONVERTER

Weight Converter : Convert between kilograms and pounds.

Introduction:

Both pounds and kilograms are used to measure the mass/weight of the object. In this article, you will understand the meaning of pound and kg, the conversion of mass/weight from pounds to kilograms in detail, along with examples.

**Pounds vs kg**

Pounds to kg conversion

The below formula is used to represent **pounds in kg**. Thus, pounds to kg formula is given by:

1 lbs = 0.45359237 kg

The formula to convert **kg into pounds** (lbs) is given below.

1 kg = 2.2046226218 lbs

These are used to convert the mass of objects from **pounds into kg**.

A pound is a unit of mass used in the imperial and US customary systems of measurement. The symbol used to represent the pound is lb. The standard pound used today was earlier called the international avoirdupois pound and is precisely 0.45359237 kilograms.

The base unit of mass in the International System of Units (SI) is a kilogram. This can be represented with the symbol “kg”. It is currently defined based on the fixed numerical value of the Planck constant, h, which is equivalent to 6.62607015 × 10-34 in the units of J·s, or kg·m2·s-1. The purpose of changes made as per the new definition given in 2019 is to improve SI base units but not to change how they are accepted throughout the world.

Source code:

def kg\_to\_pounds(kilograms):

pounds = kilograms \* 2.20462

return pounds

def pounds\_to\_kg(pounds):

kilograms = pounds / 2.20462

return kilograms

def main():

print("Welcome to the Unit Conversion Program!")

print("1. Kilograms to Pounds")

print("2. Pounds to Kilograms")

choice = int(input("Enter your choice (1 or 2): "))

if choice == 1:

kilograms = float(input("Enter weight in kilograms: "))

pounds = kg\_to\_pounds(kilograms)

print(f"{kilograms} kilograms is equal to {pounds} pounds.")

elif choice == 2:

pounds = float(input("Enter weight in pounds: "))

kilograms = pounds\_to\_kg(pounds)

print(f"{pounds} pounds is equal to {kilograms} kilograms.")

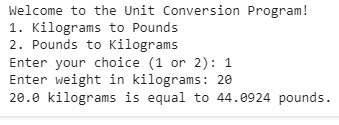
else:

print("Invalid choice. Please enter 1 or 2.")

if \_\_name\_\_ == "\_\_main\_\_":

main()

OUTPUT:



The MINI PROJECT “UNIT CONVERTER ” , Submitted by NILOJI SUPRAJA