1. Python Program to Print Hello world!

print('Hello, world!')

1. Python Program to Add Two Numbers

num1 = 1.5

num2 = 6.3

sum = num1 + num2

print('The sum of {0} and {1} is {2}'.format(num1, num2, sum))

1. Python Program to Find the Square Root

num = float(input('Enter a number: '))

num\_sqrt = num \*\* 0.5

print('The square root of %0.3f is %0.3f'%(num ,num\_sqrt))

1. Python Program to Calculate the Area of a Triangle

a = float(input('Enter first side: '))

b = float(input('Enter second side: '))

c = float(input('Enter third side: '))

s = (a + b + c) / 2

area = (s\*(s-a)\*(s-b)\*(s-c)) \*\* 0.5

print('The area of the triangle is %0.2f' %area)

1. Python Program to Solve Quadratic Equation

import math

a = 1

b = 5

c = 6

d = (b\*\*2) - (4\*a\*c)

sol1 = (-b-math.sqrt(d))/(2\*a)

sol2 = (-b+math.sqrt(d))/(2\*a)

print('The solution are {0} and {1}'.format(sol1,sol2))

1. Python Program to Swap Two Variables

x = 5

y = 10

x = input('Enter value of x: ')

y = input('Enter value of y: ')

temp = x

x = y

y = temp

print('The value of x after swapping: {}'.format(x))

print('The value of y after swapping: {}'.format(y))

1. Python Program to Generate a Random Number

import random

print(random.randint(0,9))

1. Python Program to Convert Kilometers to Miles

kilometers = float(input("Enter value in kilometers: "))

conv\_fac = 0.621371

miles = kilometers \* conv\_fac

print('%0.2f kilometers is equal to %0.2f miles' %(kilometers,miles))

1. Python Program to Convert Celsius To Fahrenheit

celsius = 37.5

fahrenheit = (celsius \* 1.8) + 32

print('%0.1f degree Celsius is equal to %0.1f degree Fahrenheit' %(celsius,fahrenheit))

1. Python program to convert height (in feet and inches) to centimeters.

print("Input your height: ")

h\_ft = int(input("Feet: "))

h\_inch = int(input("Inches: "))

h\_inch += h\_ft \* 12

h\_cm =(h\_inch \* 2.54)

print("Your height is : %d cm." % h\_cm)

1. Python program to calculate the hypotenuse of a right angled triangle.

from math import sqrt

print("Input lengths of shorter triangle sides:")

a = float(input("a: "))

b = float(input("b: "))

c = sqrt(a\*\*2 + b\*\*2)

print("The length of the hypotenuse is", c )

1. Python program to convert all units of time into seconds.

days = int(input("Input days: ")) \* 3600 \* 24

hours = int(input("Input hours: ")) \* 3600

minutes = int(input("Input minutes: ")) \* 60

seconds = int(input("Input seconds: "))

time = days + hours + minutes + seconds

print("The amounts of seconds", time)

1. Python program to convert seconds to day, hour, minutes and seconds.

time = float(input("Input time in seconds: "))

day = time // (24 \* 3600)

time = time % (24 \* 3600)

hour = time // 3600

time %= 3600

minutes = time // 60

time %= 60

seconds = time

print("d:h:m:s-> %d:%d:%d:%d" % (day, hour, minutes, seconds))

1. Python program to get the Python version you are using.

import sys

print("Python version")

print (sys.version)

print("Version info.")

print (sys.version\_info)

1. Python program to display the current date and time.

import datetime

now = datetime.datetime.now()

print ("Current date and time : ")

print (now.strftime("%Y-%m-%d %H:%M:%S"))

1. Python program to accept a filename from the user and print the extension of that.

filename = input("Input the Filename: ")

f\_extns = filename.split(".")

print ("The extension of the file is : " + repr(f\_extns[-1]))