1. Write a Python program to convert kilometers to miles?

ANS: # Python3 program to convert

# kilometers to miles

# driver code

kilometers **=** 5.5

# conversion factor

conv **=** 0.621371

# calculate miles

miles **=** kilometers **\*** conv

print('%0.3f kilometers is equal to %0.3f miles' **%**(kilometers,miles))

kilometers **=** 6.5

# calculate miles

miles **=** kilometers **\*** conv

print('%0.3f kilometers is equal to %0.3f miles' **%**(kilometers,miles))

5.500 kilometers is equal to 3.418 miles

6.500 kilometers is equal to 4.039 miles

1. Write a Python program to convert Celsius to Fahrenheit?

ANS:

|  |
| --- |
| # Temperature in celsius degree  celsius **=** 40    # Converting the temperature to  # fehrenheit using the above  # mentioned formula  fahrenheit **=** (celsius **\*** 1.8) **+** 32    # printing the result  **print**('%.2f Celsius is equivalent to: %.2f Fahrenheit'  **%**(celsius, fahrenheit)) |

**Output:**

40.00 Celsius is equivalent to: 104.00 Fahrenheit

1. Write a Python program to display calendar?

ANS: # Python program to display calendar of

# given month of the year

# import module

**import** calendar

yy **=** 2017

mm **=** 11

# display the calendar

print(calendar.month(yy, mm))

1. Write a Python program to solve quadratic equation?

ANS:

|  |
| --- |
| # Python program to find roots of quadratic equation  **import** math      # function for finding roots  **def** equationroots( a, b, c):        # calculating discriminant using formula      dis **=** b **\*** b **-** 4 **\*** a **\*** c      sqrt\_val **=** math.sqrt(abs(dis))        # checking condition for discriminant  **if** dis > 0:          print(" real and different roots ")  **print**((**-**b **+** sqrt\_val)**/**(2 **\*** a))  **print**((**-**b **-** sqrt\_val)**/**(2 **\*** a))    **elif** dis **==** 0:  **print**(" real and same roots")          print(**-**b **/** (2 **\*** a))        # when discriminant is less than 0  **else**:          print("Complex Roots")          print(**-** b **/** (2 **\*** a), " + i", sqrt\_val)          print(**-** b **/** (2 **\*** a), " - i", sqrt\_val)    # Driver Program  a **=** 1  b **=** 10  c **=** **-**24    # If a is 0, then incorrect equation  **if** a **==** 0:  **print**("Input correct quadratic equation")    **else**:      equationroots(a, b, c) |

**Output:**

real and different roots

2.0

-12.0

1. Write a Python program to swap two variables without temp variable?

ANS: int1=int(input(“Enter the first number: “))

Int2=int(input(“Enter the second number: “))

Print(‘old value of int1 is {0} and int2 is {1}’.format(int1,int2))

Int1=int1+int2

Int2=int1-int2

Int1=int1-int2

Print(‘New value of int1 is {0} and int2 is {1}’.format(int1,int2))

Enter first number: 11

Enter second number:22

Old value of int1 is 11 and int2 is 22

New value of int1 is 22 and int2 is 11