

Programming Assignment 2

1. Write a Python program to convert kilometers to miles?
2. Write a Python program to convert Celsius to Fahrenheit?
3. Write a Python program to display calendar?
4. Write a Python program to solve quadratic equation?
5. Write a Python program to swap two variables without temp variable?

```
In [1]: #1. Write a Python program to convert kilometers to miles?
miles=0
kms=float(input('Enter the number of Kilometers'))
# 1 Kilometre = 0.621371 Mile
ratio = 0.621371
print('{} Kilometers converted to Miles: {}'.format(kms),kms*ratio)
```

Enter the number of Kilometers7
7.0 Kilometers converted to Miles: 4.349597

```
In [2]: #2. Write a Python program to convert Celsius to Fahrenheit?
Celsius=float(input('Enter the number of Celsius'))
# 1 Kilometre = 0.621371 Mile
Fahrenheit = (Celsius * 9/5) + 32
print('{} Celsius converted to Fahrenheit: {}'.format(kms),Fahrenheit)
```

Enter the number of Celsius35
7.0 Celsius converted to Fahrenheit: 95.0

```
In [3]: #3. Write a Python program to display calendar

# importing calendar module
import calendar

yy = 2021 # year
mm = 4    # month

# To take month and year input from the user
# yy = int(input("Enter year: "))
# mm = int(input("Enter month: "))

# display the calendar
print(calendar.month(yy, mm))
```

```
April 2021
Mo Tu We Th Fr Sa Su
      1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30
```

```
In [7]: #4. Write a Python program to solve quadratic equation?
# Solve the quadratic equation ax**2 + bx + c = 0

# import complex math module
import cmath
a=int(input('Enter 1st non zero integer'))
b=int(input('Enter 2nd non zero integer'))
c=int(input('Enter non zero constant'))
# calculate the discriminant
d = (b**2) - (4*a*c)
```

```
# find two solutions
sol1 = (-b-cmath.sqrt(d))/(2*a)
sol2 = (-b+cmath.sqrt(d))/(2*a)

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

Enter 1st non zero integer8
Enter 2nd non zero integer8
Enter non zero constant9
The solution are (-0.5-0.9354143466934853j) and (-0.5+0.9354143466934853j)

In [5]: *#5. Write a Python program to swap two variables without temp variable?*

```
a=input('Enter 1st variable')
b=input('Enter 2nd variable')
a,b=b,a
print('{} is 1st variable entered and it has been swapped with {} variable, {} is 2n
```

Enter 1st variable8
Enter 2nd variable9
8 is 1st variable entered and it has been swapped with 9 variable, 9 is 2nd variable
entered and it has been swapped with 8 variable