

Day 3 of Python Assignment Answers -

7. Write a Python program to display calendar?

```
import calendar

# Ask the user for input
year = int(input("Enter the year: "))
month = int(input("Enter the month: "))

# Display the calendar
print(calendar.month(year, month))
```

This Python program imports the built-in calendar module to display a calendar of a specific year and month. It prompts the user to enter the year and month for which they want to display the calendar. The entered values are used to call the `calendar.month` function, which returns a string containing the calendar for the specified year and month. The program then prints the returned string, which displays the calendar to the user.



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8. Write a Python program to solve quadratic equation?

```
import cmath

a = float(input("Enter the coefficient of x^2: "))
b = float(input("Enter the coefficient of x: "))
c = float(input("Enter the constant term: "))

# Calculate the discriminant
discriminant = (b**2) - (4*a*c)

# Find the roots of the equation
root1 = (-b - cmath.sqrt(discriminant)) / (2*a)
root2 = (-b + cmath.sqrt(discriminant)) / (2*a)

# Print the roots
print(f"The roots of the equation are: {root1} and {root2}")
```



This program prompts the user to enter the coefficients of a quadratic equation in the form $ax^2 + bx + c = 0$, where a , b , and c are constants. It then calculates the discriminant of the equation, which is $b^2 - 4ac$, and uses it to find the roots of the equation using the quadratic formula: $(-b \pm \sqrt{b^2 - 4ac}) / 2a$. Finally, it prints the roots of the equation. If the discriminant is negative, the program will print the roots as complex numbers.



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9. Write a Python program to swap two variables with temp variable?

```
# take input from the user
x = input('Enter value of x: ')
y = input('Enter value of y: ')

# print the original values of x and y
print(f'Before swapping: x = {x}, y = {y}')

# swap the values of x and y using a temporary variable
temp = x
x = y
y = temp

# print the swapped values of x and y
print(f'After swapping: x = {x}, y = {y}')
```

In this program, we first take input from the user for the variables x and y. Then, we print the original values of x and y. Next, we swap the values of x and y using a temporary variable temp. Finally, we print the swapped values of x and y.



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