**Example of Module package:**

**1.Concept of calender**

import calendar

def print\_calendar(year, month):

# Generate a text calendar for the specified month and year

cal\_text = calendar.month(year, month)

# Print the calendar

print(f"Calendar for {calendar.month\_name[month]} {year}:\n")

print(cal\_text)

# Example usage:

year\_input = int(input("Enter the year: "))

month\_input = int(input("Enter the month (1-12): "))

print\_calendar(year\_input, month\_input)

**explanation**

1. **Importing the** calendar **Module:**

import calendar

This line imports the calendar module, which provides functionality to work with calendars in Python.

1. **Defining the** print\_calendar **Function:**

pythonCopy code

def print\_calendar(year, month):

This line defines a function named print\_calendar that takes two parameters: year and month.

1. **Generating the Calendar Text:**

cal\_text = calendar.month(year, month)

The calendar.month(year, month) function generates a text representation of the calendar for the specified month and year. It returns a multiline string containing the calendar.

1. **Printing the Header Message:**

print(f"Calendar for {calendar.month\_name[month]} {year}:\n")

This line uses an f-string to print a formatted message indicating which month and year the calendar is for. It uses the calendar.month\_name list to get the name of the month based on the month variable.

1. **Printing the Calendar Text:**

print(cal\_text)

This line prints the calendar text that was generated earlier.

1. **Example Usage Section:**

year\_input = int(input("Enter the year: "))

month\_input = int(input("Enter the month (1-12): "))

print\_calendar(year\_input, month\_input)

This section prompts the user to input a year and a month, converts the inputs to integers, and then calls the print\_calendar function with the provided year and month.

**2.Concept of DateTime**

import datetime

x=datetime.datetime.now()

print(x)

**3.Concept of Time**

import datetime

# get the current date and time

now = datetime.datetime.now()

print(now)

**4.Concept of operators**

Import operator module

**import** operator

x=**int**(input("Enter first integer number:"))

y=**int**(input("Enter second integer number:"))

mulResult=operator.mul(x,y)

print("Multiplication result of numbers given by you is: ", mulResult)

5.**Concept of Math**

**1.factorial**

import math

n=int(input("Enter the number:"))

print(math.factorial(n))

**2.Square Root**

import math

n=int(input("enter the no:"))

print(math.sqrt(n))

**3.Power**

import math

n=int(input("Enter the number:"))

x=int(input("Enter the number:"))

print(math.pow(n, x))