

Date - ~~elephant~~

Task 3 :- working with modules
and packages in python programming

→ We have learnt using libraries.
→ In python there are standard libraries which
displays the current date and time
day will update also in the
format, wednesday, 06 August 2015, 07:33 PM

Algorithm:-

- 1) Start the program.
- 2) Import the date-time module.
- 3) Get the current date and time using
`date_time.now()`
- 4) Format the date and time using
`strptime`.
- 5) Display the formatted result
- 6) End the program.

Program:-

```
from datetime import datetime
now = datetime.now()
formatted_time = now.strftime("%Y-%m-%d %H:%M:%S")
print("Current Date and Time:",  
      formatted_time)
```

2008/08/06 10:10

calculator 1998 06 06 10:10
morning weather at 06:10 am
outfit: - spectacles paper from 29 August
current Date and Time = wednesday
06 August 2008 after 07:30 pm.

met the forces at 07:00 am
it is now 07:30 am now just
now for 2008 tuesday do. ~~but~~ ~~but~~ ~~but~~

met the forces at 07:00 am now
point 2008 tuesday do. ~~but~~ ~~but~~ ~~but~~
(now 2008 tuesday do
year 2008 now do. ~~but~~ ~~but~~ ~~but~~

met the forces at 07:00 am now
morning do. ~~but~~ ~~but~~ ~~but~~

met the forces at 07:00 am now
morning do. ~~but~~ ~~but~~ ~~but~~

Result: the program successfully imported the date time module and displayed the current date and time in the required format.

d) Create and use your own module

Aim:- To create a custom module with math functions and use them in the main program.

Algorithm:-

1. Create a python file named mymath.py
2. Define two function inside it factorial (n) and is_prime (n).
3. Create a main program to import mymath and use both functions.
4. Display the results
5. End the program.

module :- mymath.py

```
def factorial (n):  
    result = 1
```

```
    for i in range (1, n+1):
```

```
        result *= i
```

```
    return result
```

```
def is_prime (n):
```

```
    if n <= 1:
```

```
        return False
```

outlets - flow into lake.

factorial of 5 years = 3 factors
and 12 years = 3 factors + 1 factor
from climate.

margin

similarity

strongly linear 9/17 no 2209 - 3 factors

2) strong positive effect of 2209

(a) strong - 21 by (a) 2209, 2
factors of margin from a 3 factors
constant had few bias changes

either 9/21 5 factors

margin 9/21 2 factors

B. Nonparametric factors

(a) 2209, 2 factors

or 3 factors

(a, b, c) factors 9/21 2 factors

2) 9/21 2 factors

margin 9/21 2 factors

(a) 2 factors

1 factors 2 factors

```
for i in range(2, int(mysum)+1):  
    if n % i == 0:  
        return False  
return True
```

Program:

import mymath

print('Factorial of 5:', mymath.factorial(5))
print('1 is prime?', mymath.is_prime(1))

Result: 120
1 is not prime

Result: The custom module mymath was created and successfully used in the main program.

c. currency converter using a custom package.

Aim:- to create a package with a module to convert currency from INR to USD.

Algorithm:-

1. Create a package folder named currency.
2. Inside it, create a file converter.py
3. Define a function convert(amount, rate) in it.
4. In the main program import the module and use the function.
5. Display the result.
6. End the program.

module:- converter.py

```
def convert(amount, rate):  
    return amount * rate
```

Program :-

```
from currency import converter  
inr - amount = 1000  
usd - rate = 0.012
```

outfit & gear expenses ~~G~~ ~~G~~

total to US \$ 120.00 ~~show~~ ~~or~~ ~~exp~~

Food for 10 days ~~from~~ ~~or~~ ~~exp~~

bear traps ~~for~~ ~~show~~ ~~or~~ ~~exp~~

10-rodents ~~show~~ ~~or~~ ~~exp~~

other trapping ~~show~~ ~~or~~ ~~exp~~

waterproof gear ~~show~~ ~~or~~ ~~exp~~

flask ~~show~~ ~~or~~ ~~exp~~

magnet ~~show~~ ~~or~~ ~~exp~~

etc ~~show~~ ~~or~~ ~~exp~~

(color film) ~~show~~ ~~or~~ ~~exp~~

other ~~show~~ ~~or~~ ~~exp~~

refugee ~~show~~ ~~or~~ ~~exp~~

trapping ~~show~~ ~~or~~ ~~exp~~

0.00 ~~show~~ ~~or~~ ~~exp~~

\$10.00 ~~show~~ ~~or~~ ~~exp~~

wd - account & contractor comprising - amount
wd - date)

Print (INR to wd :- , wd - amount)

VEL TECH - CSE	
EX NO.	3
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	X 13/6

Result the custom package and
module were successfully used to
convert our to wd.