

## Program-2

2. Develop a Django app that displays date and time four hours ahead and four hours before as an offset of current date and time in server.

Create application:

```
>python manage.py startapp lab2
```

In lab2 subfolder, write code in views.py

```
from django.shortcuts import render
from django.http import HttpResponseRedirect

import datetime

def current_datetime(request):
    now = datetime.datetime.now()
    html = "<html><body><h1>It is now %s.</h1></body></html>" %now
    return HttpResponseRedirect(html)

def four_hours_ahead(request):
    dt = datetime.datetime.now() + datetime.timedelta(hours=4)
    html = "<html><body><h1>After 4hour(s), it will be %s.</h1>"%(dt,)
    return HttpResponseRedirect(html)

def four_hours_before(request):
    dt = datetime.datetime.now() + datetime.timedelta(hours=-4)
    html = "<html><body><h1>Before 4 hour(s), it was %s.</h1>"%(dt,)
    return HttpResponseRedirect(html)
```

In the project folder p, write the code into urls.py

```
from django.urls import path
from lab2.views import current_datetime, four_hours_ahead, four_hours_before

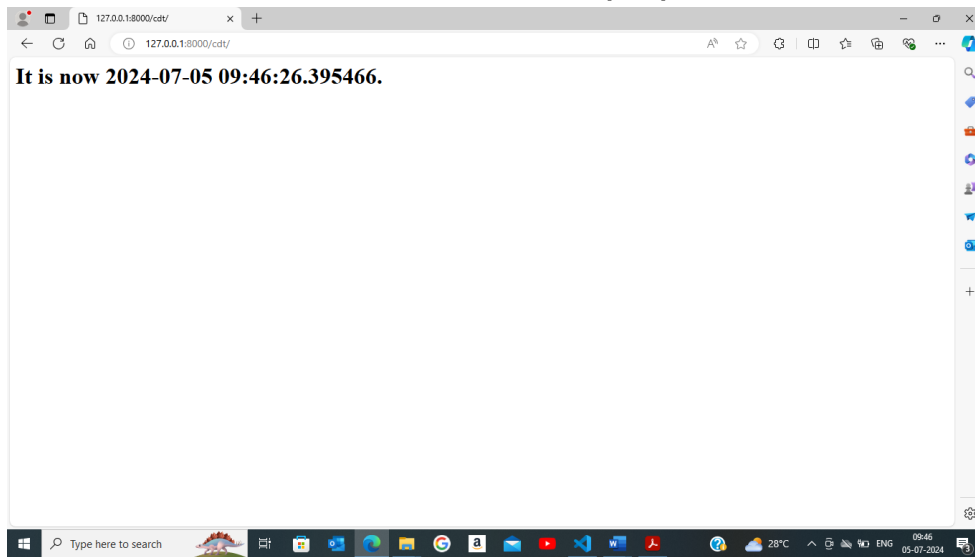
urlpatterns = [
    path('cdt/', current_datetime),
    path('fha/', four_hours_ahead),
    path('fhb/', four_hours_before),
]
```

Output:

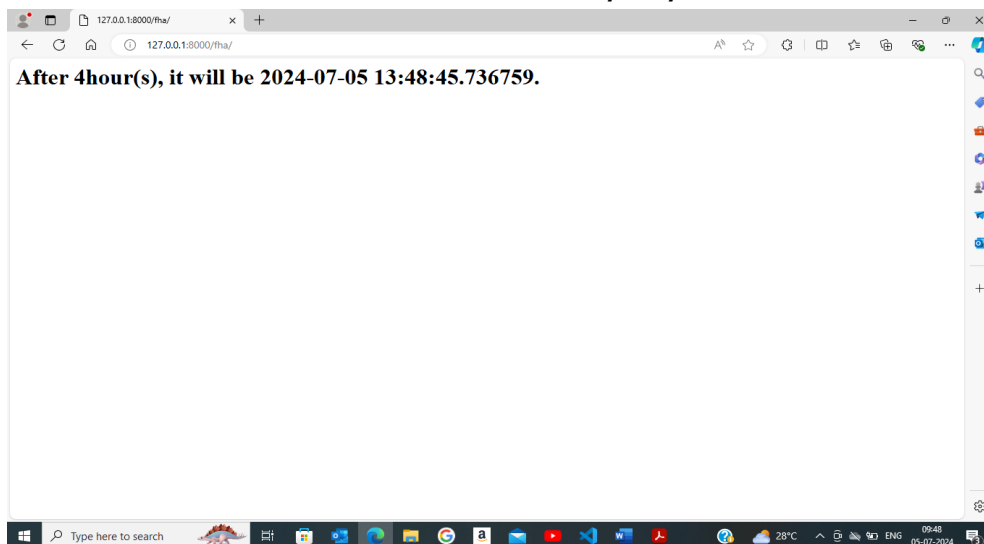
- Activate app by adding app name 'lab2' in the settings.py in the project folder p.
- Save and Run server by executing command:

```
>python manage.py runserver
```

In the browser, enter the url :127.0.0.1:8000/cdt/



In the browser, enter the url :127.0.0.1:8000/fhb/



In the browser, enter the url :127.0.0.1:8000/fha/

