

TASK 10

PEMROGRAMAN PYTHON

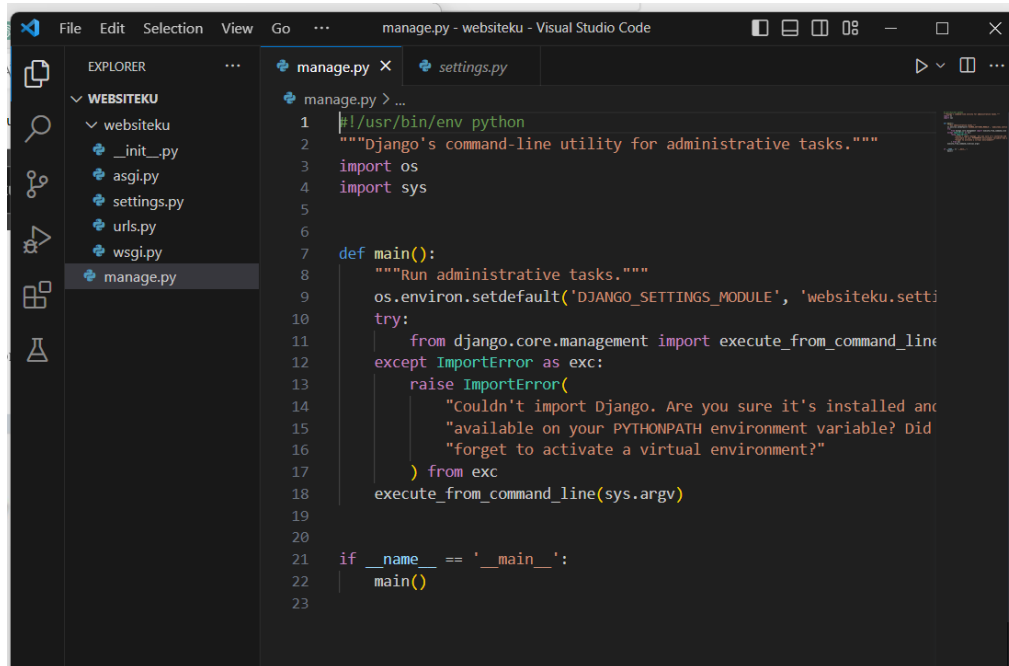
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Kelas : Pemrograman Python D

Buka Project ke Dalam VS Code

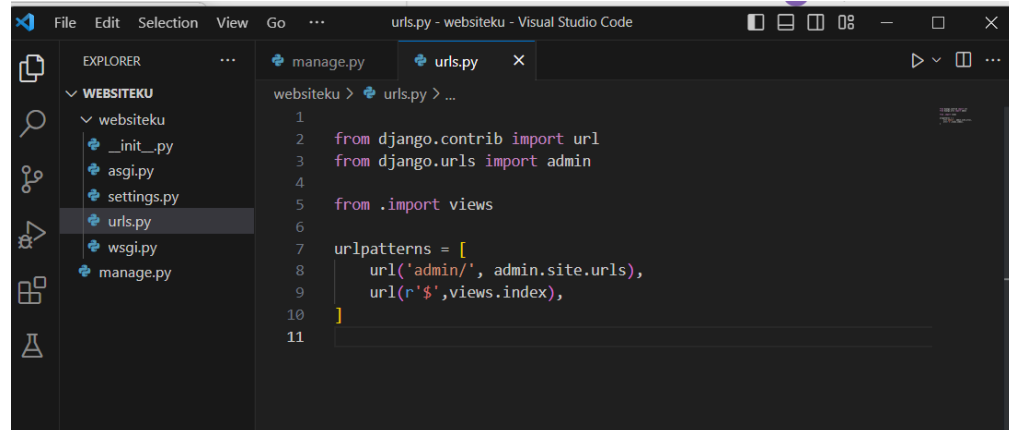
1. Buka Folder Project kalian di VSC



The screenshot shows the Visual Studio Code interface with a project named 'websiteku'. The Explorer sidebar on the left shows the project structure: 'websiteku' folder containing '_init_.py', 'asgi.py', 'settings.py', 'urls.py', 'wsgi.py', and 'manage.py'. The 'manage.py' file is selected and open in the editor. The code in 'manage.py' is as follows:

```
1 #!/usr/bin/env python
2 """Django's command-line utility for administrative tasks."""
3 import os
4 import sys
5
6
7 def main():
8     """Run administrative tasks."""
9     os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'websiteku.settings')
10    try:
11        from django.core.management import execute_from_command_line
12    except ImportError as exc:
13        raise ImportError(
14            "Couldn't import Django. Are you sure it's installed and
15            available on your PYTHONPATH environment variable? Did
16            you forget to activate a virtual environment?"
17        ) from exc
18    execute_from_command_line(sys.argv)
19
20
21 if __name__ == '__main__':
22     main()
23
```

2. Pada project (websiteku) klik file urls kemudian ketik kode seperti gambar dibawah.



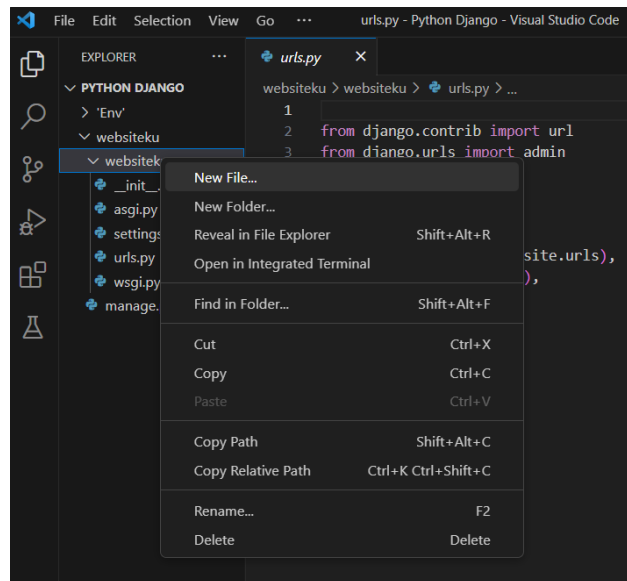
The screenshot shows the Visual Studio Code interface with the 'websiteku' project. The 'urls.py' file is selected and open in the editor. The code in 'urls.py' is as follows:

```
1
2 from django.contrib import url
3 from django.urls import admin
4
5 from . import views
6
7 urlpatterns = [
8     url('admin/', admin.site.urls),
9     url(r'^$', views.index),
10 ]
11
```

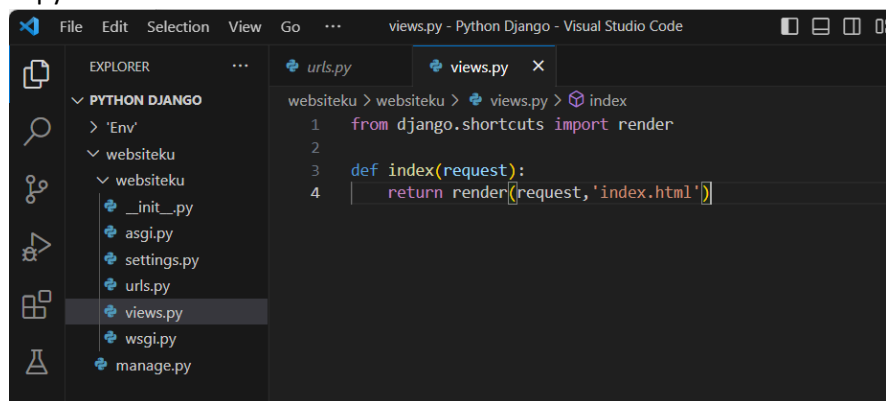
3. Klik kanan project directory, klik New File.

TASK 10

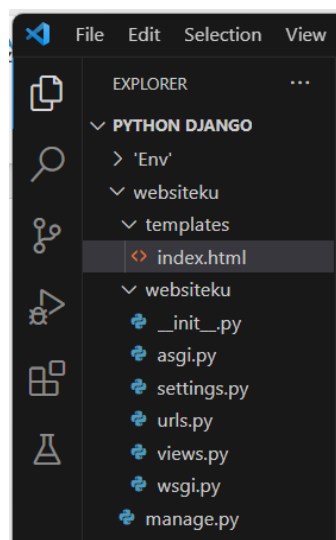
PEMROGRAMAN PYTHON



4. Ketik views.py kemudian ketikan kode berikut



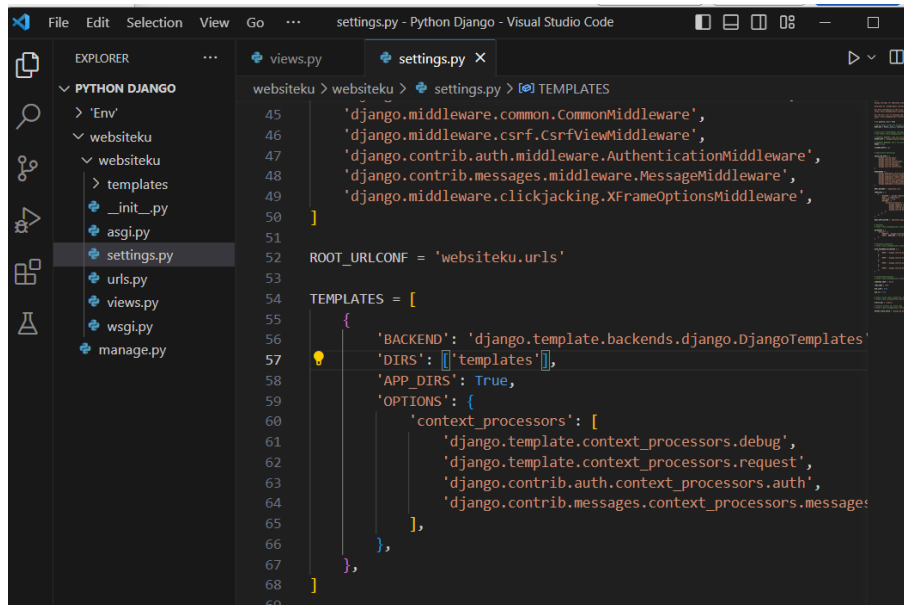
5. Klik kanan pada Base Directory, kemudian New Folder.
Buatlah folder Templates



6. Klik file settings.py pada project. Dan ketik kode seperti gambar di bawah.

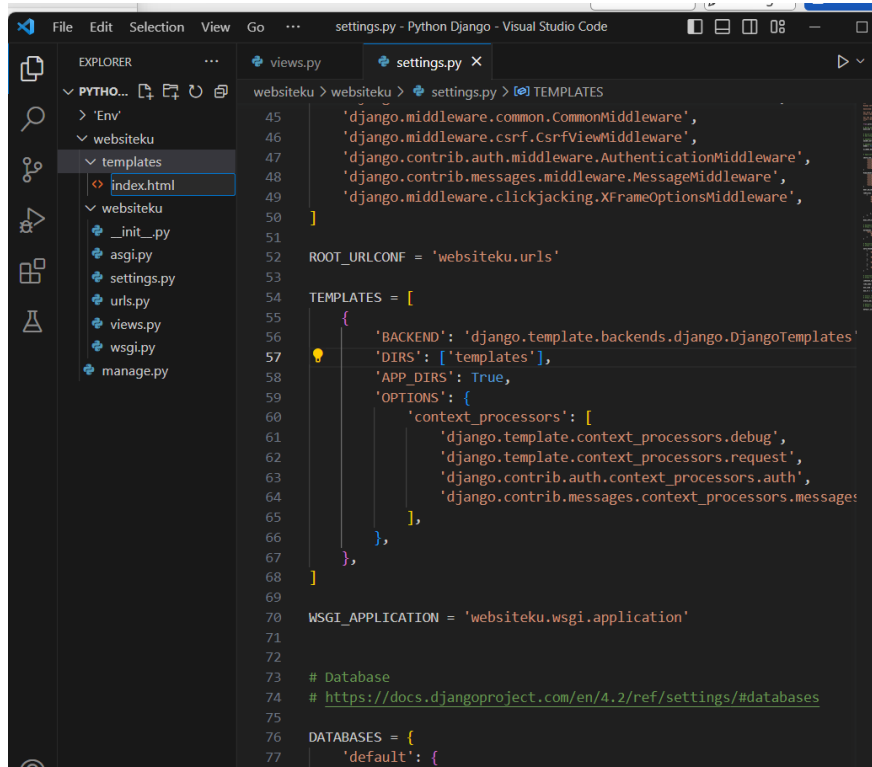
TASK 10

PEMROGRAMAN PYTHON



```
45 'django.middleware.common.CommonMiddleware',
46 'django.middleware.csrf.CsrfViewMiddleware',
47 'django.contrib.auth.middleware.AuthenticationMiddleware',
48 'django.contrib.messages.middleware.MessageMiddleware',
49 'django.middleware.clickjacking.XFrameOptionsMiddleware',
50 ]
51
52 ROOT_URLCONF = 'websiteku.urls'
53
54 TEMPLATES = [
55     {
56         'BACKEND': 'django.template.backends.django.DjangoTemplates',
57         'DIRS': [],
58         'APP_DIRS': True,
59         'OPTIONS': {
60             'context_processors': [
61                 'django.template.context_processors.debug',
62                 'django.template.context_processors.request',
63                 'django.contrib.auth.context_processors.auth',
64                 'django.contrib.messages.context_processors.messages',
65             ],
66         },
67     },
68 ]
```

7. Buat file baru dengan nama index.html di dalam folder templates project.

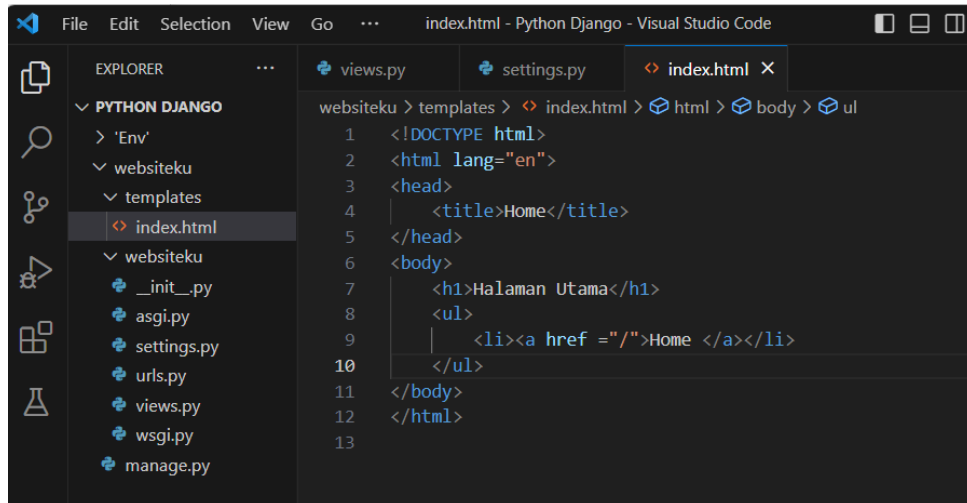


```
45 'django.middleware.common.CommonMiddleware',
46 'django.middleware.csrf.CsrfViewMiddleware',
47 'django.contrib.auth.middleware.AuthenticationMiddleware',
48 'django.contrib.messages.middleware.MessageMiddleware',
49 'django.middleware.clickjacking.XFrameOptionsMiddleware',
50 ]
51
52 ROOT_URLCONF = 'websiteku.urls'
53
54 TEMPLATES = [
55     {
56         'BACKEND': 'django.template.backends.django.DjangoTemplates',
57         'DIRS': ['templates'],
58         'APP_DIRS': True,
59         'OPTIONS': {
60             'context_processors': [
61                 'django.template.context_processors.debug',
62                 'django.template.context_processors.request',
63                 'django.contrib.auth.context_processors.auth',
64                 'django.contrib.messages.context_processors.messages',
65             ],
66         },
67     },
68 ]
69
70 WSGI_APPLICATION = 'websiteku.wsgi.application'
71
72
73 # Database
74 # https://docs.djangoproject.com/en/4.2/ref/settings/#databases
75
76 DATABASES = {
77     'default': {
```

8. Ketik kode index.html seperti gambar di bawah.

TASK 10

PEMROGRAMAN PYTHON



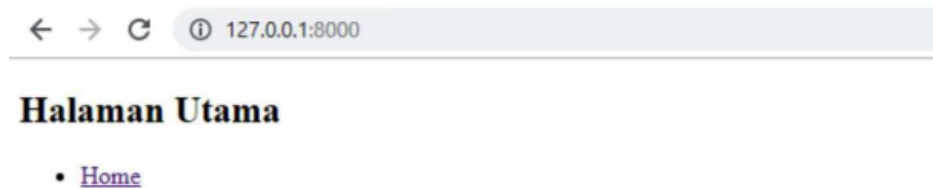
The screenshot shows the Visual Studio Code interface with the Django project structure in the Explorer sidebar. The file explorer shows the following structure:

- PYTHON DJANGO
 - > 'Env'
 - websiteku
 - templates
 - index.html
 - websiteku
 - _init_.py
 - asgi.py
 - settings.py
 - urls.py
 - views.py
 - wsgi.py
 - manage.py

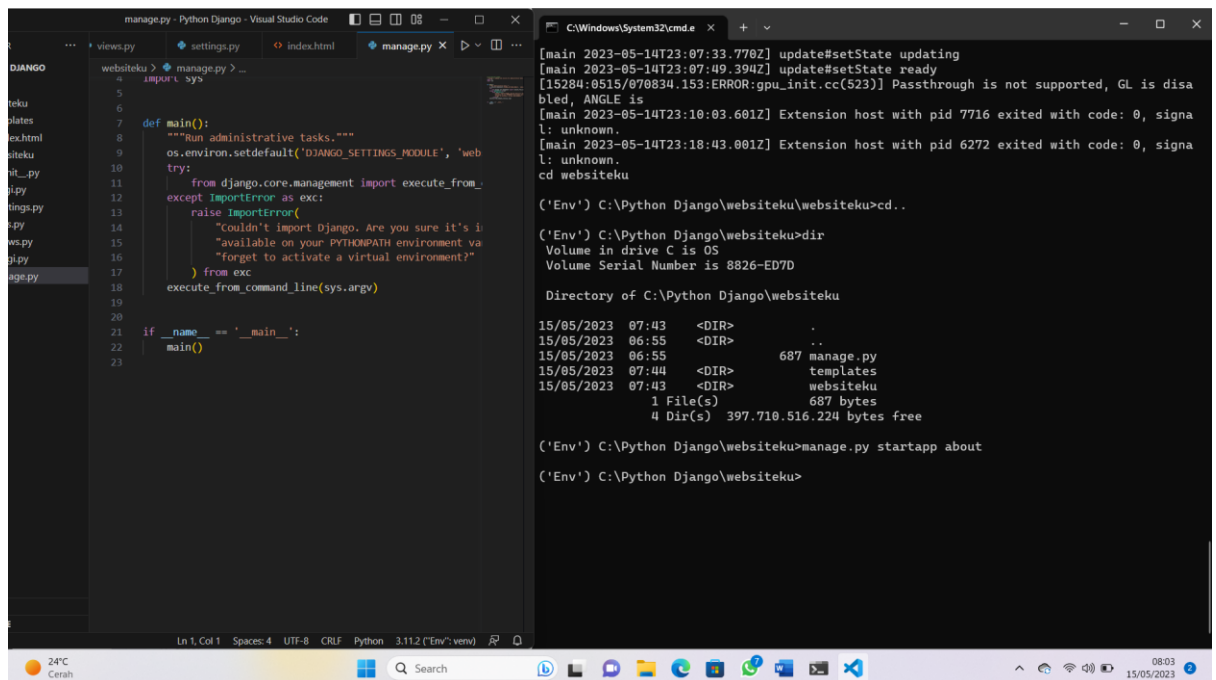
The main editor shows the content of `index.html`:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Home</title>
5 </head>
6 <body>
7   <h1>Halaman Utama</h1>
8   <ul>
9     <li><a href ="/">Home </a></li>
10  </ul>
11 </body>
12 </html>
13
```

9. Halaman utama



10. Buka cmd baru atau terminal (Klik View>Terminal) yang ada di VS Code Anda, kemudian ketik `manage.py startapp about` seperti gambar di bawah.



The screenshot shows the Visual Studio Code interface with the Django project structure in the Explorer sidebar. The file explorer shows the following structure:

- PYTHON DJANGO
 - > 'Env'
 - websiteku
 - templates
 - index.html
 - websiteku
 - _init_.py
 - asgi.py
 - settings.py
 - urls.py
 - views.py
 - wsgi.py
 - manage.py

The main editor shows the content of `manage.py`:

```
1 import sys
2
3
4
5
6
7 def main():
8     """Run administrative tasks."""
9     os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'websiteku')
10    try:
11        from django.core.management import execute_from_command_line
12    except ImportError as exc:
13        raise ImportError(
14            "Couldn't import Django. Are you sure it's installed and\n"
15            "available on your PYTHONPATH environment variable? Did you\n"
16            "forget to activate a virtual environment?"
17        ) from exc
18    execute_from_command_line(sys.argv)
19
20
21 if __name__ == '__main__':
22     main()
23
```

The terminal output shows the following commands and results:

```
[main 2023-05-14T23:07:33.770Z] update#setState updating
[main 2023-05-14T23:07:49.394Z] update#setState ready
[15284:0515/070834.153:ERROR:gpu_init.cc(523)] Passthrough is not supported, GL is disabled, ANGLE is
[main 2023-05-14T23:10:03.601Z] Extension host with pid 7716 exited with code: 0, signal: unknown.
[main 2023-05-14T23:18:43.001Z] Extension host with pid 6272 exited with code: 0, signal: unknown.
cd websiteku

('Env') C:\Python Django\websiteku>cd..
('Env') C:\Python Django\websiteku>dir
Volume in drive C is OS
Volume Serial Number is 8826-ED7D

Directory of C:\Python Django\websiteku

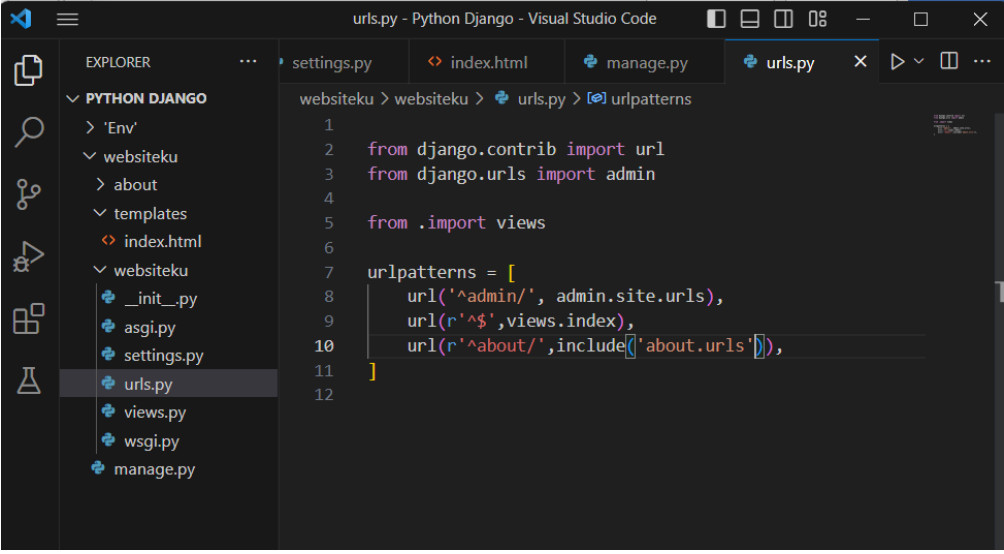
15/05/2023  07:43    <DIR>          .
15/05/2023  06:55    <DIR>          ..
15/05/2023  06:55             687 manage.py
15/05/2023  07:44    <DIR>          templates
15/05/2023  07:43    <DIR>          websiteku
                  1 File(s)        687 bytes
                  4 Dir(s)    397.710.516.224 bytes free

('Env') C:\Python Django\websiteku>manage.py startapp about
('Env') C:\Python Django\websiteku>
```

11. Tambahkan kode dibawah di file `url.py`

TASK 10

PEMROGRAMAN PYTHON



The image shows a screenshot of the Visual Studio Code editor interface. The title bar at the top reads "urls.py - Python Django - Visual Studio Code". The Explorer sidebar on the left displays the project structure under "PYTHON DJANGO":

- > 'Env'
- > websiteku
 - > about
 - > templates
 - index.html
 - websiteku
 - __init__.py
 - asgi.py
 - settings.py
 - urls.py (selected)
 - views.py
 - wsgi.py
 - manage.py

The main editor window shows the content of `urls.py` with the following code:

```
1
2 from django.contrib import url
3 from django.urls import admin
4
5 from . import views
6
7 urlpatterns = [
8     url('^admin/', admin.site.urls),
9     url(r'^$', views.index),
10    url(r'^about/', include('about.urls')),
11 ]
12
```