

EX:2

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CODE;

MYAPP(VIEWS.PY)

```
from django.shortcuts import render
from django.shortcuts import render
def home(request):
    number_result = None
    name_filter_result = None
    if 'number' in request.GET:
        number = request.GET['number']
        if number.isdigit():
            number = int(number)
            if number % 2 == 0:
                number_result = f"{number} is an even number"
            else:
                number_result = f"{number} is an odd number"
        else:
            number_result = "Please enter a valid number"
    if 'character' in request.GET:
        character = request.GET['character']
        names = ["hello", "hai", "apple", "banana"]
        name_filter_result = [name for name in names if name.startswith(character)]
    return render(request, 'home.html', {
        'number_result': number_result,
        'name_filter_result': name_filter_result,
    })
```

MYAPP(URLS.PY)

```
from django.urls import path

from . import views

urlpatterns = [

    path("", views.home, name='home'),

]
```

HOME.HTML:

```
<!DOCTYPE html><html lang="en">

<head>  <title>Web Application using Django Framework</title>

  <style>

    body { font-family: Arial, sans-serif; text-align: center; margin: 20px; }

    h1, h2 { font-weight: bold; }

    form { margin: 20px 0; }

    input[type="text"] { padding: 5px; }

    input[type="submit"] { padding: 5px 10px; }

  </style></head>

<body>

  <h1>Kamaraj College of Engineering and Technology</h1>

  <h3>Web Applications using Django Framework</h3>

  <p>Screen Fathima Gani.M (22uit103)</p>

  <h2>Creating and Working with Template</h2>

  <h3>ODD or EVEN Checker</h3>

  <form method="get">

    <label>Enter a number: <input type="text" name="number"></label>

    <input type="submit" value="Check">

  </form>{% if number_result %}

    <p>{{ number_result }}</p> {% endif %} <h3>Name Filter</h3>

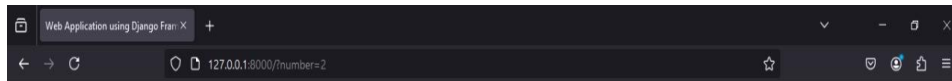
  <form method="get">

    <label>Enter a character: <input type="text" name="character"></label>
```

```
        <input type="submit" value="Search">
    </form>

    {% if name_filter_result %}
    <ul> {% for name in name_filter_result %}
        <li>{{ name }}</li>
    {% endfor %} </ul>
    {% else %} {% if request.GET.character %}
        <p>No names found starting with '{{ request.GET.character }}'.</p> {% endif %}
    {% endif %}</body></html>
```

OUTPUT:



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Web Applications using Django Framework

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Creating and Working with Template

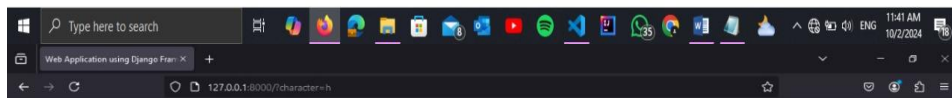
ODD or EVEN Checker

Enter a number:

2 is an even number

Name Filter

Enter a character:



Kamaraj College of Engineering and Technology

Web Applications using Django Framework

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Creating and Working with Template

ODD or EVEN Checker

Enter a number:

Name Filter

Enter a character:

.

hello
hai

