**divisibleby**

Returns True if the value is divisible by the argument.

{{value|divisibleby:"3" }}

**filesizeformat**

Formats the value like a ‘human-readable’ file size (i.e. **'13 KB'**, **'4.1 MB'**, **'102 bytes'**, etc.).

For example:

{{ value|filesizeformat }}

If **value** is 123456789, the output would be **117.7 MB**.

**First**

Returns the first item in a list.

For example:

{{ value|first }}

If **value** is the list **['a', 'b', 'c']**, the output will be **'a'**.

**Floatformat**

When used without an argument, rounds a floating-point number to one decimal place – but only if there’s a decimal part to be displayed. For example:

| value | Template | Output |
| --- | --- | --- |
| 34.23234 | {{ value|floatformat }} | 34.2 |
| 34.00000 | {{ value|floatformat }} | 34 |
| 34.26000 | {{ value|floatformat }} | 34.3 |

If used with a numeric integer argument, **floatformat** rounds a number to that many decimal places. For example:

| **value** | **Template** | **Output** |
| --- | --- | --- |
| **34.23234** | **{{ value|floatformat:3 }}** | **34.232** |
| **34.00000** | **{{ value|floatformat:3 }}** | **34.000** |
| **34.26000** | **{{ value|floatformat:3 }}** | **34.260** |

Particularly useful is passing 0 (zero) as the argument which will round the float to the nearest integer.

| **value** | **Template** | **Output** |
| --- | --- | --- |
| **34.23234** | **{{ value|floatformat:"0" }}** | **34** |
| **34.00000** | **{{ value|floatformat:"0" }}** | **34** |
| **39.56000** | **{{ value|floatformat:"0" }}** | **40** |

**get\_digit**

Given a whole number, returns the requested digit, where 1 is the right-most digit, 2 is the second-right-most digit, etc. Returns the original value for invalid input (if input or argument is not an integer, or if argument is less than 1). Otherwise, output is always an integer.

For example:

{{ value|get\_digit:"2" }}

If **value** is **123456789**, the output will be **8**.

**Views.py**

from multiprocessing import context

from django.shortcuts import render

import os.path

# Create your views here.

import datetime

def filtertest(request):

    d=datetime.datetime.today()

    dict1={"num1":10,

    "list1":[10,20,30,40,50],

    "list2":[1,2,3,4,5],

    "names":['naresh','suresh','ramesh'],

    "s1":"python programming language",

    "d":d,

    "s2":"",

    "x":None,

    "person":[

    {'name': 'zed', 'age': 19},

    {'name': 'amy', 'age': 22},

    {'name': 'joe', 'age': 31}],

    "n1":9,

    "n2":4,

    "size":os.path.getsize("C:\\Users\\nit\\filterproject\\templates\\filter.html"),

    "n3":12.567,

    "n4":12.512,

}

    return render(request,"filter.html",context=dict1)

filter.html

<html>

    <h2>

        {{num1}} <br>

        {{list1}} <br>

        {{list2}} <br>

        {{num1|add:"5"}} <br>

        {{list1|add:list2}}<br>

        {%for value in list1%}

        {{value|add:"1"}} <br>

        {%endfor%}

        {%for name in names%}

        {{name|capfirst}}<br>

        {%endfor%}

        {%for name in names%}

        {{name|center:"15"}}<br>

        {%endfor%}

        {{s1}}<br>

        {{s1|cut:" "}}<br>

        {{d|date:"d/m/Y"}}<br>

        {{d|date:"l d b Y"}}<br>

        {{d|date:"h:i:s"}}<br>

        {{s2|default:"None"}}<br>

        {{x|default\_if\_none:"empty"}}<br>

        {{person}}<br>

        {{person|dictsort:"name"}}<br>

        {{person|dictsort:"age"}}<br>

        {{n1|divisibleby:n2}}<br>

        {{size|filesizeformat}}<br>

        {{n3|floatformat}}<br>

        {{n4|floatformat}}<br>

     </h2>

</html>

Urls.py

from django.contrib import admin

from django.urls import path

from app import views

urlpatterns = [

    path('admin/', admin.site.urls),

    path("test/",views.filtertest)

]

**Customized template tags and filter**