

Soal No 1.

Program kecil bernama "ApaBole"

Tolong print angka dari 1 sampai 100. Tetapi, Ada peraturan khusus:

1. Untuk setiap angka yang bisa dibagi dengan 3, jangan print angka nya, tapi print "Apa".
2. Kalau bisa dibagi dengan 5, print "Bole",
3. Kalau bisa dibagi oleh 3 dan 5, print "ApaBole".

```
In [1]: for i in range(1,101):  
        if i%3 == 0 and i%5 != 0:  
            print("Apa", end = ", ")  
        elif i%5 == 0 and i%3 != 0:  
            print("Bole", end= ", ")  
        elif i%3 == 0 and i%5 == 0:  
            print("ApaBole", end= ", ")  
        else:  
            print(i, end= ", ")
```

1, 2, Apa, 4, Bole, Apa, 7, 8, Apa, Bole, 11, Apa, 13, 14, ApaBole, 16, 17, Apa, 19, Bole, Apa, 22, 23, Apa, Bole, 26, Apa, 28, 29, ApaBole, 31, 32, Apa, 34, Bole, Apa, 37, 38, Apa, Bole, 41, Apa, 43, 44, ApaBole, 46, 47, Apa, 49, Bole, Apa, 52, 53, Apa, Bole, 56, Apa, 58, 59, ApaBole, 61, 62, Apa, 64, Bole, Apa, 67, 68, Apa, Bole, 71, Apa, 73, 74, ApaBole, 76, 77, Apa, 79, Bole, Apa, 82, 83, Apa, Bole, 86, Apa, 88, 89, ApaBole, 91, 92, Apa, 94, Bole, Apa, 97, 98, Apa, Bole,

Soal No 2.

Menampilkan ramalan cuaca kota Jakarta untuk 7 hari kedepan

1. Silahkan gunakan API yang disediakan <http://openweathermap.org> (<http://openweathermap.org>)
2. Tolong tampilkan output berupa ramalan cuaca kota Jakarta untuk 7 hari ke depan
3. Soal ini tidak membutuhkan akun berbayar.

```
In [11]: import requests, json  
         from datetime import datetime  
  
conn = requests.get("https://api.openweathermap.org/data/2.5/onecall?lat=-6.176274")  
data = json.loads(conn.text)
```

```
In [12]: print(data)
```

```
{
  "lat": -6.1763,
  "lon": 106.7465,
  "timezone": "Asia/Jakarta",
  "timezone_offset": 25200,
  "current": {
    "dt": 1634963138,
    "sunrise": 1634941729,
    "sunset": 1634985937,
    "temp": 31.88,
    "feels_like": 37.4,
    "pressure": 1011,
    "humidity": 62,
    "dew_point": 23.69,
    "uvi": 7.83,
    "clouds": 20,
    "visibility": 9000,
    "wind_speed": 4.12,
    "wind_deg": 70,
    "weather": [
      {
        "id": 721,
        "main": "Haze",
        "description": "haze",
        "icon": "50d"
      }
    ],
    "daily": [
      {
        "dt": 1634961600,
        "sunrise": 1634941729,
        "sunset": 1634985937,
        "moonrise": 1634993760,
        "moonset": 1634947980,
        "moon_phase": 0.58,
        "temp": {
          "day": 31.88,
          "min": 27.11,
          "max": 31.88,
          "night": 28.71,
          "eve": 29.78,
          "morn": 27.13
        },
        "feels_like": {
          "day": 37.4,
          "night": 32.28,
          "eve": 33.41,
          "morn": 29.83
        },
        "pressure": 1011,
        "humidity": 62,
        "dew_point": 23.69,
        "wind_speed": 4.59,
        "wind_deg": 12,
        "wind_gust": 4.94,
        "weather": [
          {
            "id": 500,
            "main": "Rain",
            "description": "light rain",
            "icon": "10d"
          }
        ],
        "clouds": 20,
        "pop": 1,
        "rain": 0.29,
        "uvi": 8.37
      },
      {
        "dt": 1635048000,
        "sunrise": 1635028112,
        "sunset": 1635072339,
        "moonrise": 1635083040,
        "moonset": 1635037080,
        "moon_phase": 0.61,
        "temp": {
          "day": 31.56,
          "min": 27.46,
          "max": 32.17,
          "night": 29.44,
          "eve": 30.51,
          "morn": 27.52
        },
        "feels_like": {
          "day": 34.75,
          "night": 32.33,
          "eve": 33.61,
          "morn": 30.45
        },
        "pressure": 1011,
        "humidity": 55,
        "dew_point": 21,
        "wind_speed": 5.13,
        "wind_deg": 14,
        "wind_gust": 3.87,
        "weather": [
          {
            "id": 804,
            "main": "Clouds",
            "description": "overcast clouds",
            "icon": "04d"
          }
        ],
        "clouds": 91,
        "pop": 0.26,
        "uvi": 13.17
      },
      {
        "dt": 1635134400,
        "sunrise": 1635114495,
        "sunset": 1635158742,
        "moonrise": 1635172500,
        "moonset": 1635126240,
        "moon_phase": 0.64,
        "temp": {
          "day": 32.01,
          "min": 27.91,
          "max": 33.09,
          "night": 29.57,
          "eve": 31.33,
          "morn": 28.01
        },
        "feels_like": {
          "day": 35.66,
          "night": 33.18,
          "eve": 34.54,
          "morn": 30.82
        },
        "pressure": 1009,
        "humidity": 55,
        "dew_point": 21.54,
        "wind_speed": 5.85,
        "wind_deg": 338,
        "wind_gust": 4.71,
        "weather": [
          {
            "id": 500,
            "main": "Rain",
            "description": "light rain",
            "icon": "10d"
          }
        ],
        "clouds": 100,
        "pop": 0.71,
        "rain": 1.32,
        "uvi": 14.18
      },
      {
        "dt": 1635220800,
        "sunrise": 1635200880,
        "sunset": 1635245145,
        "moonrise": 1635261900,
        "moonset": 1635215640,
        "moon_phase": 0.67,
        "temp": {
          "day": 31.03,
          "min": 28.41,
          "max": 31.03,
          "night": 28.74,
          "eve": 30.81,
          "morn": 28.41
        },
        "feels_like": {
          "day": 34.66,
          "night": 32.17,
          "eve": 34.45,
          "morn": 31.64
        },
        "pressure": 1010,
        "humidity": 59,
        "dew_point": 21.85,
        "wind_speed": 5.04,
        "wind_deg": 21,
        "wind_gust": 4.09,
        "weather": [
          {
            "id": 500,
            "main": "Rain",
            "description": "light rain",
            "icon": "10d"
          }
        ],
        "clouds": 86,
        "pop": 0.84,
        "rain": 3.29,
        "uvi": 13.54
      },
      {
        "dt": 1635307200,
        "sunrise": 1635287265,
        "sunset": 1635331549,
        "moonrise": 1635351360,
        "moonset": 1635305040,
        "moon_phase": 0.7,
        "temp": {
          "day": 30.68,
          "min": 27.91,
          "max": 31.18,
          "night": 28.73,
          "eve": 30.99,
          "morn": 27.91
        },
        "feels_like": {
          "day": 34.18,
          "night": 32.49,
          "eve": 34.82,
          "morn": 30.75
        },
        "pressure": 1010,
        "humidity": 60,
        "dew_point": 21.89,
        "wind_speed": 5.58,
        "wind_deg": 31,
        "wind_gust": 6.03,
        "weather": [
          {
            "id": 500,
            "main": "Rain",
            "description": "light rain",
            "icon": "10d"
          }
        ],
        "clouds": 95,
        "pop": 0.86,
        "rain": 4.82,
        "uvi": 13.44
      },
      {
        "dt": 1635393600,
        "sunrise": 1635373651,
        "sunset": 1635417954,
        "moonrise": 0,
        "moonset": 1635394560,
        "moon_phase": 0.73,
        "temp": {
          "day": 31.12,
          "min": 27.73,
          "max": 31.33,
          "night": 28.97,
          "eve": 30.27,
          "morn": 27.73
        },
        "feels_like": {
          "day": 35.1,
          "night": 33.04,
          "eve": 34.47,
          "morn": 30.77
        },
        "pressure": 1010,
        "humidity": 60,
        "dew_point": 22.14,
        "wind_speed": 4.9,
        "wind_deg": 30,
        "wind_gust": 5.38,
        "weather": [
          {
            "id": 501,
            "main": "Rain",
            "description": "moderate rain",
            "icon": "10d"
          }
        ],
        "clouds": 71,
        "pop": 0.92,
        "rain": 8.3,
        "uvi": 14
      },
      {
        "dt": 1635480000,
        "sunrise": 1635460037,
        "sunset": 1635504360,
        "moonrise": 163540760,
        "moonset": 1635484080,
        "moon_phase": 0.75,
        "temp": {
          "day": 31.03,
          "min": 27.82,
          "max": 31.21,
          "night": 28.61,
          "eve": 30.56,
          "morn": 27.82
        },
        "feels_like": {
          "day": 35.16,
          "night": 32.57,
          "eve": 34.64,
          "morn": 31.1
        },
        "pressure": 1010,
        "humidity": 61,
        "dew_point": 22.46,
        "wind_speed": 5.12,
        "wind_deg": 22,
        "wind_gust": 4.82,
        "weather": [
          {
            "id": 501,
            "main": "Rain",
            "description": "moderate rain",
            "icon": "10d"
          }
        ],
        "clouds": 27,
        "pop": 0.91,
        "rain": 9.69,
        "uvi": 14
      }
    ]
  }
}
```

```
14}, {'dt': 1635566400, 'sunrise': 1635546425, 'sunset': 1635590766, 'moonrise': 1635530040, 'moonset': 1635573540, 'moon_phase': 0.79, 'temp': {'day': 30.73, 'min': 27.45, 'max': 32.54, 'night': 29.3, 'eve': 30.63, 'morn': 27.45}, 'feels_like': {'day': 34.52, 'night': 33.19, 'eve': 34.31, 'morn': 30.53}, 'pressure': 1010, 'humidity': 61, 'dew_point': 22.11, 'wind_speed': 4.82, 'wind_deg': 14, 'wind_gust': 4.53, 'weather': [{'id': 500, 'main': 'Rain', 'description': 'light rain', 'icon': '10d'}], 'clouds': 10, 'pop': 0.64, 'rain': 1.44, 'uvi': 14}]}
```

```
In [13]: for i in range(0, len(data['daily'])):
         date = int(data['daily'][i]['dt'])
         object = datetime.utcfromtimestamp(date).strftime('%Y-%m-%d %H:%M:%S')
         datetimeobject = datetime.strptime(object, '%Y-%m-%d %H:%M:%S')
         print(datetimeobject.strftime('%a, %d %B %Y'), ": ", data['daily'][i]['temp']['d
```

```
Sat, 23 October 2021 : 31.88 °C
Sun, 24 October 2021 : 31.56 °C
Mon, 25 October 2021 : 32.01 °C
Tue, 26 October 2021 : 31.03 °C
Wed, 27 October 2021 : 30.68 °C
Thu, 28 October 2021 : 31.12 °C
Fri, 29 October 2021 : 31.03 °C
Sat, 30 October 2021 : 30.73 °C
```