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| Less 13  Import datetime  Datetime –  Datetime.datetime(2025,1,3,15) - date yasedi  Date – Date.fromtimestamp(1600000000) -sek qabul  Time –  Strptime(str, ‘%Y-%m-%d %H:%M:%S’) – str dan  date formatga otkizadi(strdagi belgilari bn bir xil bo kk)  Strftime(‘%Y-%m-%d) – datelarni formatlash u-n va str  qaytaradi  Timedelta – datetime.timedelta(days=5) 2 ta timeni farqi  Timezone –  Import.pytz - | Re (RegEx)  **re.match**()  **re.search** () – bittasini chiqaradi  **re.findall**() – hammasini topadi  **r’\d+’** - raqamlarni hammasini topadi  re.sub() |
| less 14  Json (file type)  Jsonda “ bolishi kk  Import Json  **Load** – json dan pythonga otish uchun  With open(‘example.json’, ‘r’) as f:  Data = json.load(f)  **Loads** -  **Dumps** -  **Dump** – pythonda jsonga otish uchun  With open(‘sample.json’, ‘w’) as f:  Json.dump(d, f) | **Requests**  **Import requests**  respond = **Requests.get**(‘https://kun.uz/’)  respond.status\_code  respond.text |
| Les 15  Project - actors information and jpeg file  API |  |

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| **Less16**  Ceaser Cipher  **Threading**  My\_thread = Threading.Thread(target=functionname)  My\_thread.start() –  My\_thread.join() - | Prime numbers with threads  Threadslarni ishlatishda limit bu kompyuter ga bogliq |
| **Less 17**  **Import sqlite3 – (berilgan malumotni store qilad)**  **Connection = sqlite3.connect(‘sqlite\_db.sqlite’)**  **Cursor = connection.cursor()**  Sql = “create table test(id int, age int)”  Cursor.execute(sql)  **Cursor.close()**  **Connection.commit()**  **Connection.close()**  Query = “select datetime(‘now’, ‘locatime’)”  Results = cursor.execute(query)  Row = results**.fetchone**() – har 1 ta rowni alohida  chiqaradi  Print(row)  Time = row[0]  Print(time) | **Import pyodbc**  **connection** = pyodbc.connect("Driver={SQL Server};"                        "Server=WIN-JI3TQEC2PKI;"                        "Database=W3Resource;"                        "Trusted\_Connection=yes;")  **cursor = connection.cursor()**  **sql = “select \* from Family”**  **result = cursor.execute(sql)**  **newresult = result.fetchall()**  **row = newresult[0]**  **print(row)**  **connection.commit()**  **connection.close()** |
| With sqlite3.connect(‘test\_database.db’) as connection:  Cursor = connection.cursor()  Query = “select datetime(‘now’, ‘localtime’);”  Results = cursor.execute(query)  Row = results.fetchall()  Print(row) | **Import pandas as pd**  **Import sqlalchemy as sa**  **Connection\_string =**  **' mssql+pyodbc://WINJI3TQEC2PKI/W3Resource?**  **driver=SQl+Server '**  **engine** **= sa.create\_engine(connection\_string)**  **con = engine.connect()**  **df** = **pd.read\_sql(sa.text(‘select \* from item\_mast’,**  **con= con )**  **print(df)** |

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| **Less 18 Matplotlib**  **Import matplotlib.pyplot as plt**  **Import numpy as np**  **Plt.plot**([1,2,3,4]) – 1ta list ber/sa Y sifatida tushinadi  **Plt.plot**([1,2,3,4], [3,2,4,1]) – 1-list X , 2-list Y  **Fig = plt.figure()** – orqa fondagi oq boshliq  **Ax1 = fig.add\_sublpot(2, 2, 1)** – 2 ta rowli 2ta columnli  **Plt.plot(np.random(50)** – random chizma chizadi  **Ax1.hist(np.random.randn(100), bins=20)** - 20 ta  ustunli histogram randomli chizib beradi  **Ax1.hist(np.random.randn(100), ‘r’) –** qizil rangga boyedi  **Ax1.hist(np.random.randn(100), ‘ro’) –** nuqta boladi  **Ax1.hist(np.random.randn(100), ‘ro--’) –** chiziq chiziq  boladi |  |
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