Pythonda JSON bilan ishlash

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JSON (JavaScript Object Notation) - bu ma'lumotlarni saqlash va almashish uchun ishlatiladigan eng mashhur formatlardan biridir.

2. Python va JSON

Python 'json' moduli yordamida JSON fayllar bilan o'qish, yozish va tahrirlash mumkin.

- 3. Asosiy funksiyalar:
- json.load(): Fayldan JSON o'qish
- json.loads(): JSON matnni (string) Python obyektiga aylantirish
- json.dump(): Python obyektini JSON formatda faylga yozish
- json.dumps(): Python obyektini JSON matn ko'rinishiga aylantirish
- 4. Misollar:

import json

JSON matnni Python obyektiga aylantirish

```
data = '{"name": "Husan", "age": 20}'
```

parsed = json.loads(data)

print(parsed['name']) # Husan

Python obyektini JSON matnga aylantirish

```
obj = {'name': 'Husan', 'age': 20}
```

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```
json_str = json.dumps(obj)
print(json_str) # {"name": "Husan", "age": 20}
# Faylga yozish
with open('data.json', 'w') as f:
  json.dump(obj, f)
# Fayldan o'qish
with open('data.json') as f:
  content = json.load(f)
  print(content)
5. Foydali parametrlar:
- indent=4: JSON matnni chiroyli ko'rinishda yozish uchun
- sort_keys=True: Kalit so'zlarni alifbo tartibida yozish
# Misol:
json.dumps(obj, indent=4, sort_keys=True)
```

Ushbu qo'llanma JSON bilan ishlashni boshlash uchun asosiy bilimlarni beradi.