Task 02: Learn About FastAPI

FastAPI Task Summary

- FastAPI Introduction:

FastAPI aik modern Python web framework hai jo APIs ko efficiently banata hai. Yeh asynchronous programming, type hints, aur auto documentation support karta hai.

- Use Cases:

- REST APIs banana

- Asynchronous data processing

- Machine learning models ke endpoints

- Fast, lightweight web backend services

- Code Example:

```
from fastapi import FastAPI

app = FastAPI()

@app.get("/")
def read_root():
    return {"message": "Hello from FastAPI!"}
```

- Test the API:

Run command: uvicorn main:app --reload

Visit: http://127.0.0.1:8000

Docs: http://127.0.0.1:8000/docs (Swagger UI)

- Integration:

Yeh API kisi frontend app ya database ke saath integrate ki ja sakti hai.