

# Biodata Collection Program

This notebook collects and displays user biodata with input validation.

- Collects name, gender, age, and address
- Validates all inputs
- Displays formatted biodata when all inputs are valid

```
In [3]: def get_validated_input(prompt, validator_func=None, error_message=None):
        """Get user input with optional validation"""
        while True:
            value = input(prompt)
            if validator_func is None or validator_func(value):
                return value
            print(error_message)

        def validate_not_empty(value):
            """Validate that input is not empty"""
            return value.strip() != ""

        def validate_numeric(value):
            """Validate that input is numeric"""
            return value.isdigit()

        def validate_gender(value):
            """Validate gender input"""
            return value.upper() in ["L", "P"]

        def format_gender(gender_code):
            """Convert gender code to full text"""
            gender_code = gender_code.upper()
            if gender_code == "L":
                return "Laki-laki"
            elif gender_code == "P":
                return "Perempuan"
            return "Tidak diketahui"
```

```
In [4]: # Collect user input with validation
nama = get_validated_input(
    "Masukkan nama Anda: ",
    validator_func=validate_not_empty,
    error_message="Nama tidak boleh kosong. Silakan coba lagi."
)

kelamin_kode = get_validated_input(
    "Masukkan jenis kelamin Anda (L/P): ",
    validator_func=validate_gender,
    error_message="Jenis kelamin harus L atau P. Silakan coba lagi."
)
kelamin = format_gender(kelamin_kode)
```

```

umur = get_validated_input(
    "Masukkan umur Anda: ",
    validator_func=validate_numeric,
    error_message="Umur harus berupa angka. Silakan coba lagi."
)

alamat = get_validated_input(
    "Masukkan alamat Anda: ",
    validator_func=validate_not_empty,
    error_message="Alamat tidak boleh kosong. Silakan coba lagi."
)

```

```

In [ ]: # Format and display biodata
from IPython.display import HTML, display

biodata_html = f"""
<div style="background-color:#f0f0f0; padding:15px; border-radius:10px; width:400px"
  <h2 style="color:#333; text-align:center;">Biodata</h2>
  <hr>
  <p><b>Nama:</b> {nama}</p>
  <p><b>Jenis Kelamin:</b> {kelamin}</p>
  <p><b>Umur:</b> {umur} tahun</p>
  <p><b>Alamat:</b> {alamat}</p>
</div>
"""

display(HTML(biodata_html))

# Plain text output
print("\nBiodata Anda:")
print(f>Nama: {nama}")
print(f">Jenis Kelamin: {kelamin}")
print(f">Umur: {umur} tahun")
print(f">Alamat: {alamat}")

```

## Biodata

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**Nama:** hasan

**Jenis Kelamin:** Laki-laki

**Umur:** 34 tahun

**Alamat:** sukabumi

```

Biodata Anda:
Nama: hasan
Jenis Kelamin: Laki-laki
Umur: 34 tahun
Alamat: sukabumi

```