**📋 Input Guide for Diabetes Prediction**

**1. Gender**

* Enter: M (for Male) or F (for Female)
* Example: F

**2. Pregnancies (Only if Female)**

* **Range**: 0-17
* **Typical values**:
  + 0 = Never been pregnant
  + 1-3 = Most common range
  + 4+ = Higher risk factor
* **Example**: 2

**3. Glucose Level (mg/dL)**

* **Range**: 0-300
* **Normal values**:
  + Normal: 70-99 mg/dL (fasting)
  + Pre-diabetic: 100-125 mg/dL
  + Diabetic: 126+ mg/dL
* **Example**: 120 (slightly elevated)

**4. Blood Pressure (mm Hg)**

* **Range**: 0-200
* **Normal values**:
  + Normal: 80-120 mm Hg (diastolic)
  + High: 130+ mm Hg
* **Example**: 85 (normal)

**5. Skin Thickness (mm)**

* **Range**: 0-100
* **Normal values**:
  + Typical: 10-40 mm
  + Measured at triceps
* **Example**: 25

**6. Insulin Level (mu U/ml)**

* **Range**: 0-900
* **Normal values**:
  + Normal fasting: 2-25 mu U/ml
  + High: 100+ mu U/ml
* **Example**: 80

**7. BMI (kg/m²)**

* **Range**: 10-70
* **Categories**:
  + Underweight: <18.5
  + Normal: 18.5-24.9
  + Overweight: 25-29.9
  + Obese: 30+
* **Example**: 28.5 (overweight)

**8. Diabetes Pedigree Function**

* **Range**: 0.0-3.0
* **What it means**: Family history genetic influence
* **Typical values**:
  + Low family history: 0.1-0.3
  + Moderate: 0.4-0.8
  + High family history: 0.9+
* **Example**: 0.65

**9. Age (years)**

* **Range**: 18-120
* **Risk factors**:
  + Low risk: 18-35
  + Moderate: 36-45
  + Higher risk: 45+
* **Example**: 42

**Example 1: Low Risk Profile**

Gender: F

Pregnancies: 1

Glucose: 95

Blood Pressure: 78

Skin Thickness: 20

Insulin: 15

BMI: 23.2

Diabetes Pedigree: 0.25

Age: 28

**Example 2: Moderate Risk Profile**

Gender: M

Glucose: 115

Blood Pressure: 88

Skin Thickness: 30

Insulin: 45

BMI: 27.8

Diabetes Pedigree: 0.55

Age: 45

**Example 3: High Risk Profile**

Gender: F

Pregnancies: 4

Glucose: 145

Blood Pressure: 95

Skin Thickness: 35

Insulin: 120

BMI: 32.5

Diabetes Pedigree: 0.85

Age: 52