

## CODE IMPLEMENTATION:(Pseudocode)

# Define GPIO pins for actuators

```
actuator_pins = [1, 2, ..., 200]
```

# Initialize GPIO pins

```
initialize_pins(actuator_pins)
```

# Function to raise a specific dot

```
def raise_dot(dot_number):
```

```
    apply_current(actuator_pins[dot_number])
```

# Function to lower a specific dot

```
def lower_dot(dot_number):
```

```
    reverse_current(actuator_pins[dot_number])
```

# Function to display Braille character

```
def display_braille(character):
```

```
    braille_pattern = get_braille_pattern(character)
```

```
    for dot_number, state in enumerate(braille_pattern):
```

```
        if state == 1:
```

```
            raise_dot(dot_number)
```

```
        else:
```

```
            lower_dot(dot_number)
```

# Function to render tactile drawing

```
def render_drawing(drawing):
```

```
    for shape in drawing:
```

```
        for dot_number in shape:
```

```
            raise_dot(dot_number)
```

# User input handling

```
user_input = get_user_input()

# Check input type (Braille or Drawing)
if is_braille_input(user_input):
    display_braille(user_input)
else:
    drawing = parse_drawing_input(user_input)
    render_drawing(drawing)
```