I. Setting up the Python environment and libraries

AIM:

- Create a new notebook for Python
- Write and execute Python code
- Create new cells for code and Markdown
- Demonstrate the application of Jupyter Widgets

PROGRAM:

```python
import ipywidgets as widgets

from IPython.display import display

slider = widgets.IntSlider(value=50, min=0, max=100, step=1, description='Value:')

output = widgets.Output()

def on_value_change(change):

    output.clear_output()

    with output:

        print(f'Slider value is {change["new"]}')

slider.observe(on_value_change, names='value')

display(slider, output)
```

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OUTPUT:


```
Value:  ————◯————        41
Slider value is 41
```

RESULT:

Thus, the given program was executed successfully.