

### **3. Demonstration of connecting input, output and processing device of computer**

The demonstration of connecting input, output and processing device of a computer involves understanding the basic structure and operation of a computing system. For the demonstration, some essential steps have to be followed which are described below:

#### **Step 1: Prepare the Devices**

The following devices for the demonstration are needed.

- **Input Device:** Keyboard and/or Mouse (could be USB or wireless)
- **Output Device:** Monitor (could be HDMI or VGA connection)
- **Processing Device:** Computer case (CPU, motherboard, etc.)

#### **Step 2: Power Off the System**

- Before connecting any devices, ensure the computer is powered off.
- This is important for safety and prevents any damage to components.

#### **Step 3: Connect the Input Device (Keyboard & Mouse)**

- **For Wired Keyboard/Mouse:**
  1. Find the **USB connector** of the keyboard and/or mouse.
  2. Locate the **USB ports** on the back or front of the computer case (CPU).
  3. Plug the **keyboard's USB connector** into one of the USB ports.
  4. Similarly, plug the **mouse's USB connector** into another available USB port.
- **For Wireless Keyboard/Mouse:**

1. Plug the **wireless receiver (USB dongle)** into the USB port on the computer case.
2. Ensure the keyboard and mouse are turned on and paired with the receiver.

#### **Step 4: Connect the Output Device (Monitor)**

- **For HDMI Connection:**

1. Find the **HDMI cable** from the monitor.
2. Locate the **HDMI port** on the back of the computer's graphics card or motherboard.
3. Plug one end of the **HDMI cable** into the HDMI port on the CPU.
4. Plug the other end into the **HDMI input port** of the monitor.

- **For VGA Connection:**

1. Find the **VGA cable** from the monitor.
2. Locate the **VGA port** on the computer.
3. Plug the **VGA connector** into the VGA port on the CPU.
4. Secure it by tightening the screws on the sides.

#### **Step 5: Power On the Monitor**

- Plug the **monitor's power cable** into an electrical outlet.
- Press the **power button** on the monitor to turn it on.

#### **Step 6: Power On the Computer (CPU)**

- Plug the computer's **power cable** into an electrical outlet.
- Press the **power button** on the computer case to turn it on.

## Step 7: Test the Input Devices

- Once the computer powers on, the monitor will display the system starting up (booting).
- Test the **keyboard** by typing, and test the **mouse** by moving it around. The cursor should move on the screen.

## Step 8: Verify the Connections

- Check if the **input devices** (keyboard/mouse) are working correctly, sending signals to the computer.
- Check if the **output device** (monitor) is showing the proper display from the computer.

## Demonstration Complete

- The input devices send data to the CPU, the CPU processes the data, and the output device displays the results of the processing. The demonstration is successfully completed how to connect the basic components of a computer system.

This step-by-step approach will clearly show the functioning of input, output, and processing devices.