Pract-Handle touch input to move an object

- 1) Make the scene (one time)
 - 1. Open Godot \rightarrow New Scene.
 - 2. Add a root **Node2D** and name it Main.
 - 3. With Main selected \rightarrow **Add Child Node** \rightarrow Sprite2D.
 - o Rename this sprite to Player.
 - o In the Inspector \rightarrow set **Texture** to your player image (e.g., player.png).
 - 4. Save scene as Main.tscn.
 - 5. We will attach the script to the Main node (because it listens to touch and moves the Player).

⚠ Node names must match exactly: the script uses \$Player so the Sprite must be named Player.

2) Godot 4 — script (tap & drag)

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Attach this script to the Main node (click Main → Attach Script → paste):
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# Godot 4: attach to Main (Node2D)
extends Node2D
@export var speed: float = 400.0
                                     # pixels per second (adjust in Inspector)
@export var grab radius: float = 64.0 # how close a touch must be to start dragging
var target position: Vector2
var moving: bool = false
var dragging: bool = false
var drag id: int = -1
func ready():
  target position = $Player.position
func input(event):
  # --- Desktop testing with mouse (works in editor) ---
  if event is InputEventMouseButton and event.pressed:
     target position = event.position
     moving = true
     dragging = false
  # --- Touch press (finger down) ---
  if event is InputEventScreenTouch:
     if event.pressed:
       # Tap: set target to touch position
       target position = event.position
       moving = true
       # If touch is close to the player -> start dragging this finger
       if event.position.distance to($Player.position) <= grab radius:
          dragging = true
          drag id = event.index
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else:
       # Finger released -> stop dragging if it was this finger
       if dragging and event.index == drag id:
          dragging = false
          drag id = -1
  # --- Finger moved while touching ---
  if event is InputEventScreenDrag:
     # If we are dragging with this finger, move the player directly
     if dragging and event.index == drag id:
       $Player.position = event.position
       moving = false
     else:
       # Otherwise treat drag like continuous tapping to move
       target position = event.position
       moving = true
func _process(delta):
  if moving:
     var dir = target position - $Player.position
     var dist = dir.length()
     if dist \leq 4.0:
       $Player.position = target position
       moving = false
       $Player.position += dir.normalized() * speed * delta
```

4) Test it

• Run the scene in the editor: click to move (mouse works).