```
In [3]: import cv2
import numpy as np
def cross_dissolve_transition(image_A, image_B, num_frames):
    # Check if images are loaded properly
     if image A is None or image B is None:
        print("One or both images could not be loaded.")
        return
    # Get the maximum height and width among the images
     height = min(image A.shape[0], image B.shape[0])
    width = min(image_A.shape[1], image_B.shape[1])
    # Resize images to the maximum dimensions
     image A = cv2.resize(image A, (width, height))
     image_B = cv2.resize(image_B, (width, height))
     # Perform cross-dissolve transition over multiple frames
    for i in range(num frames + 1):
        alpha = i / num frames
        beta = 1.0 - alpha
        # Merge images using cv2.addWeighted()
        transition = cv2.addWeighted(image A, alpha, image B, beta, 0.0)
        # Display the transition
        cv2.imshow('Cross Dissolve Transition', transition)
        cv2.waitKey(30) # Adjust the delay between frames
     cv2.destroyAllWindows()
# Load two images
image_A = cv2.imread(r'E:\marg.jpg')
image_B = cv2.imread(r'E:\flower.jpg')
# take the number of frames from the user
num frames = int(input("Enter the number of frames : "))
# Call the function with image paths and the number of frames
cross_dissolve_transition(image_A, image_B, num_frames)
```

Enter the number of frames : 200

```
In [ ]:
```