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# Install the required library if not already installed
!pip install pillow matplotlib

# Import necessary libraries
from google.colab import files
from PIL import Image
import matplotlib.pyplot as plt

# Step 1: Upload an image
uploaded = files.upload()

# Open the image using PIL
image_path = list(uploaded.keys())[0] # Get the filename of the uploaded image
image = Image.open(image_path)

# Display the original image
plt.imshow(image)
plt.title("Original Image")
plt.axis('off') # Hide axes
plt.show()

# Step 2: Resize the image to smaller size (half of the original size)
smaller_image = image.resize((int(image.width / 2), int(image.height / 2)))

# Display the smaller image
plt.imshow(smaller_image)
plt.title("Smaller Image")
plt.axis('off') # Hide axes
plt.show()

# Step 3: Resize the image to larger size (double the original size)
larger_image = image.resize((int(image.width * 2), int(image.height * 2)))

# Display the larger image
plt.imshow(larger_image)
plt.title("Larger Image")
plt.axis('off') # Hide axes
plt.show()

# Optional: Save the resized images
smaller_image.save("smaller_image.jpg")
larger_image.save("larger_image.jpg")

# Download the resized images
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files.download("smaller_image.jpg")  
files.download("larger_image.jpg")
```

Original Image



Smaller Image



Larger Image

