CODE:

```
import cv2
import numpy as np

# Step 1: Read the image
image_path =r"C:\Users\harik\Downloads\CV LAB\MOUNTAIN.jpeg" # Replace with your image path
img = cv2.imread(image_path)
gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

# Step 2: Convert to float32
gray = np.float32(gray)

# Step 3: Apply Harris Corner Detection
dst = cv2.cornerHarris(src=gray, blockSize=2, ksize=3, k=0.04)

# Step 4: Dilate to mark the corners
dst = cv2.dilate(dst, None)

# Step 5: Threshold for an optimal value (mark corners in red)
img[dst > 0.01 * dst.max()] = [0, 0, 255]

# Step 6: Show and Save the result
cv2.imshow('Harris Corners', img)
cv2.waitKey(0)
cv2.destroyAllWindows()
cv2.imwrite('harris_corners_detected.jpg', img)
```

OUTPUT: