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```
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\n",
            "
\n",
            " max_pooling2d (MaxPooling2D  (None, 31, 31, 32)       0
\n",
```

```
            " )
\n",
            "
\n",
            " flatten (Flatten)             (None, 30752)             0
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            "
\n",

"=================================================================\n",
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```

```
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10,steps_per_epoch=len(x_train),validation_data=x_test,validation_steps=l
en(x_test))"
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loss: 2.5809 - accuracy: 0.2791 - val_loss: 1.3510 - val_accuracy:
0.2699\n",
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            "14/14 [==============================] - 6s 415ms/step -
loss: 1.2150 - accuracy: 0.4509 - val_loss: 0.9841 - val_accuracy:
0.7301\n",
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            "14/14 [==============================] - 7s 511ms/step -
loss: 0.8646 - accuracy: 0.7393 - val_loss: 0.6057 - val_accuracy:
0.8344\n",
            "Epoch 4/10\n",
            "14/14 [==============================] - 6s 427ms/step -
loss: 0.5112 - accuracy: 0.8528 - val_loss: 0.3082 - val_accuracy:
0.9417\n",
```

```
            "Epoch 5/10\n",
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0.8988\n",
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            "14/14 [==============================] - 6s 432ms/step -
loss: 0.2028 - accuracy: 0.9479 - val_loss: 0.1639 - val_accuracy:
0.9601\n",
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1.0000\n",
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1.0000\n",
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1.0000\n",
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image.load_img(r\"/content/drive/MyDrive/cnn/dataset/Testing/elephants/Z
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        "outputId": "a50d0ae7-f3b1-4e18-8ab9-7836b6b305ad"
      },
      "execution_count": 52,
      "outputs": [
        {
          "output_type": "stream",
          "name": "stdout",
          "text": [
            "1/1 [==============================] - 0s 28ms/step\n"
          ]
        }
      ]
    },
    {
      "cell_type": "code",
      "source": [
        "pred"
      ],
      "metadata": {
        "colab": {
          "base_uri": "https://localhost:8080/"
        },
        "id": "ol91hstovJ_R",
        "outputId": "49573769-5c53-47e3-c1de-99dbb58defbe"
```

```
  },
  "execution_count": 53,
  "outputs": [
    {
      "output_type": "execute_result",
      "data": {
        "text/plain": [
          "array([[0., 0., 1., 0.]], dtype=float32)"
        ]
      },
      "metadata": {},
      "execution_count": 53
    }
  ]
},
{
  "cell_type": "code",
  "source": [
    "x_test.class_indices"
  ],
  "metadata": {
    "colab": {
      "base_uri": "https://localhost:8080/"
    },
    "id": "vWuOypaWvNDJ",
    "outputId": "08860e78-44ea-478f-e047-27aa886b2f30"
  },
  "execution_count": 54,
  "outputs": [
    {
      "output_type": "execute_result",
      "data": {
        "text/plain": [
          "{'bears': 0, 'crows': 1, 'elephants': 2, 'rats': 3}"
        ]
      },
      "metadata": {},
      "execution_count": 54
    }
  ]
},
{
  "cell_type": "code",
  "source": [
    "index = ['bears','crows','elephants','rats']"
  ],
  "metadata": {
    "id": "fg84qOZgvQow"
  },
  "execution_count": 55,
  "outputs": []
},
{
  "cell_type": "code",
  "source": [
    "index[np.argmax(pred)]"
  ],
  "metadata": {
```

```
        "colab": {
          "base_uri": "https://localhost:8080/",
          "height": 36
        },
        "id": "OeLxQ08dv0Fh",
        "outputId": "3db3d1d7-9cd3-452c-c7ee-a96841c73c48"
      },
      "execution_count": 56,
      "outputs": [
        {
          "output_type": "execute_result",
          "data": {
            "text/plain": [
              "'elephants'"
            ],
            "application/vnd.google.colaboratory.intrinsic+json": {
              "type": "string"
            }
          },
          "metadata": {},
          "execution_count": 56
        }
      ]
    },
    {
      "cell_type": "code",
      "source": [],
      "metadata": {
        "id": "-cg1tUGzwMpI"
      },
      "execution_count": null,
      "outputs": []
    }
  ]
}
```