```json
{
  "nbformat": 4,
  "nbformat_minor": 0,
  "metadata": {
    "colab": {
      "provenance": []
    },
    "kernelspec": {
      "name": "python3",
      "display_name": "Python 3"
    },
    "language_info": {
      "name": "python"
    }
```

```
    },
    "cells": [
        {
            "cell_type": "code",
            "execution_count": 1,
            "metadata": {
                "id": "M9TDYjHFMfBL"
            },
            "outputs": [],
            "source": [
                "import keras\n",
                "from keras.preprocessing.image import ImageDataGenerator"
            ]
        },
```

```
{
```
30
```
"cell_type": "code",
```
31
```
"source": [
```
32
```
"#Define the parameters/arguments for ImageDataGenerator class\n",
```
33
```
"train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,rotation_range=180,zoom_range=0.2,horizontal_flip=True)\n",
```
34
```
"\n",
```
35
```
"test_datagen=ImageDataGenerator(rescale=1./255)"
```
36
```
],
```
37
```
"metadata": {
```
38
```
"id": "KEFqxyqwMqMu"
```
39
```
},
```
40
```
"execution_count": 2,
```
41
```
"outputs": []
```
42
```
},
```

43

```
{
```

44

```
"cell_type": "code",
```

45

```
"source": [
```

46

```
"#Applying ImageDataGenerator functionality to trainset\n",
```

47

```
"x_train=train_datagen.flow_from_directory('/content/drive/MyDrive/Dataset/Dataset/train_set',target_size=(128,128),batch_
size=32,class_mode='binary')"
```

48

```
],
```

49

```
"metadata": {
```

50

```
"colab": {
```

51

```
"base_uri": "https://localhost:8080/"
```

52

```
},
```

53

```
"id": "D5S4LCT-Mu2L",
```

54

```
"outputId": "a4113be0-c0b3-4a95-bf3e-ea77de8b744d"
```

55

```
},
```

56

"execution_count": 4,

"outputs": [

{

"output_type": "stream",

"name": "stdout",

"text": [

"Found 436 images belonging to 2 classes.\n"

]

}

]

},

{

"cell_type": "code",

"source": [

"#Applying ImageDataGenerator functionality to testset\n",

"x_test=test_datagen.flow_from_directory('/content/drive/MyDrive/Dataset/Dataset/test_set',target_size=(128,128),batch_size=32,class_mode='binary')"

],

"metadata": {

"colab": {

"base_uri": "https://localhost:8080/"

},

"id": "rQakYllkMxQG",

"outputId": "5d4f7c20-34c2-42ca-e0d8-a8fbfedf01c4"

},

"execution_count": 5,

"outputs": [

{

"output_type": "stream",

"name": "stdout",

"text": [

"Found 121 images belonging to 2 classes.\n"

]

}

]

}

]

}

84

85

86

87

88

89

90

91

92