In [3]:
```
from keras.preprocessing.image import ImageDataGenerator, array_to_img, img_to_array, load_img
```

In [19]:
```
datagen = ImageDataGenerator(rotation_range=40,
                             width_shift_range=0.2,
                             height_shift_range=0.2,
                             shear_range=0.2,
                             horizontal_flip=True)
```

In [20]:
```
img = load_img("download.png")
img
```

Out[20]:

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In [21]:
```
x = img_to_array(img)
x.shape
```

Out[21]:
```
(900, 541, 3)
```

In [22]:
```
x_reshaped = x.reshape((1,)+ x.shape)
x_reshaped.shape
```

Out[22]:
```
(1, 900, 541, 3)
```

In [23]:
```
import matplotlib.pyplot as plt
```

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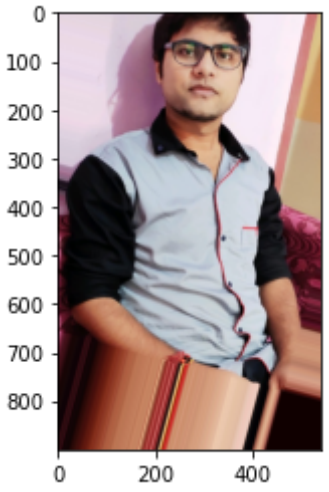
In [24]:
```
i = 0
for batch in datagen.flow(x_reshaped,batch_size=1):
    plt.figure(i)
    img_plot = plt.imshow(array_to_img(batch[0]))
    i = i+1
    if (i > 10):
        break
plt.show()
```



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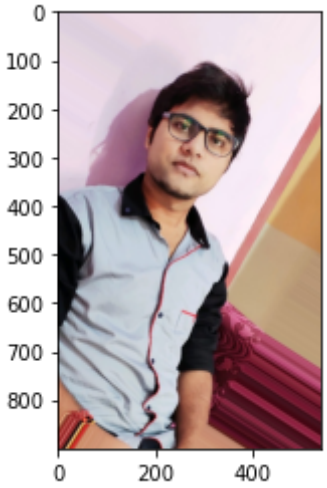

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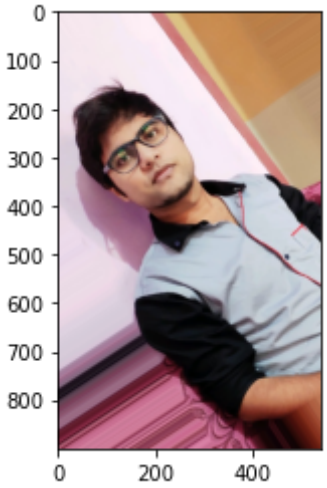


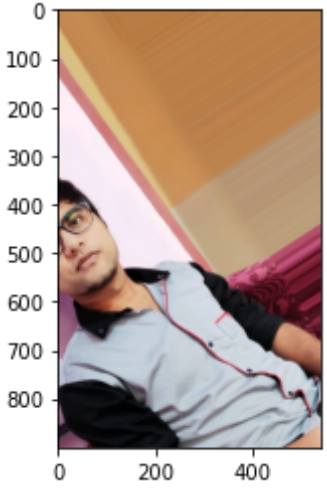


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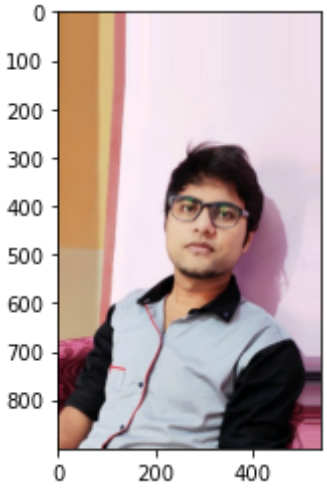


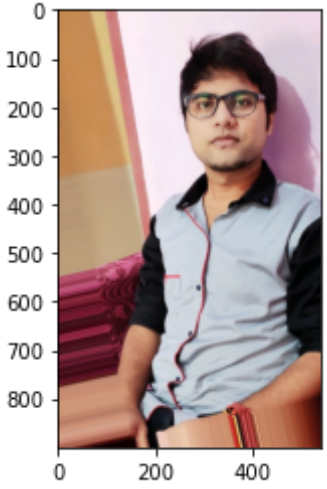


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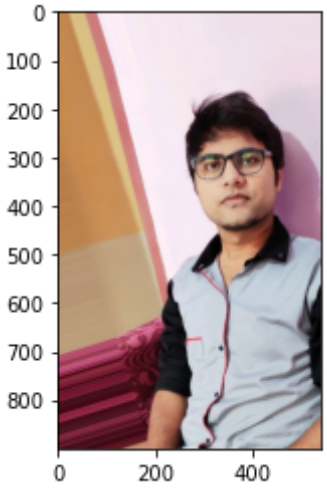


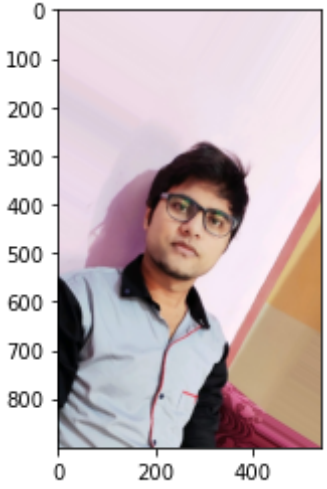


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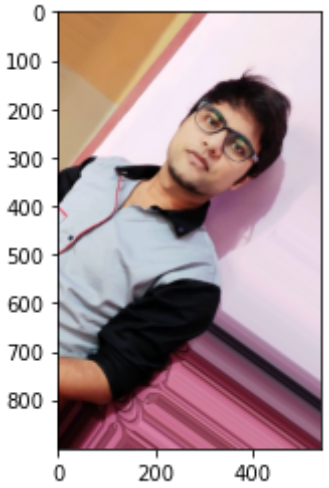


In [ ]:

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