In [2]:
```python
#Python code to read image with OpenCV
import cv2

img = cv2.imread("Azim.JPG", cv2.IMREAD_COLOR)

cv2.imshow("Amit", img)

cv2.waitKey(0)

cv2.destroyAllWindows()
```

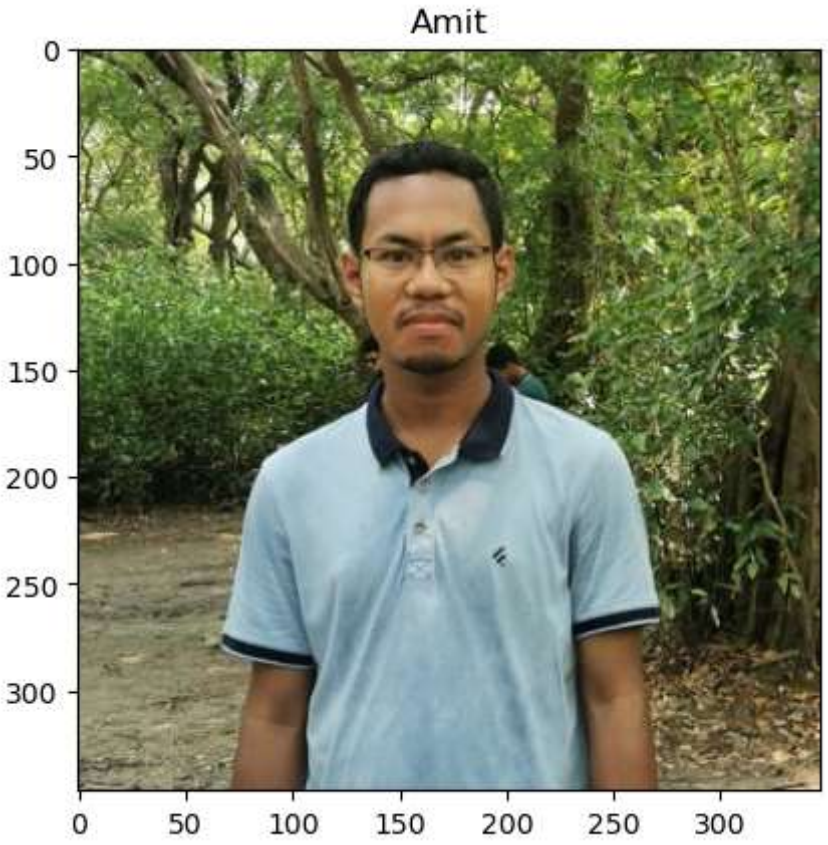
In [5]:
```python
#Python code to read image with Matplotlib
from matplotlib import pyplot as plt
import cv2

img = cv2.imread("Azim.JPG")

color = cv2.cvtColor(img,cv2.COLOR_BGR2RGB)

plt.imshow(color)
plt.title("Amit")
plt.show()

print(img.shape)
```




```
(347, 347, 3)
```

In [7]:
```
#Grayscale Image
import cv2

path = r'Azim.JPG'

img = cv2.imread(path, cv2.IMREAD_GRAYSCALE)

cv2.imshow('Amit', img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

In [8]:
```
import os
import cv2

image_path = r'C:\Users\amiti\DIP Practice\Azim.JPG'

directory = r'C:\Users\amiti\Desktop\New folder'

img  = cv2.imread(image_path)
os.chdir(directory)

print("Before Saving Image: ")
print(os.listdir(directory))

filename = 'saveImage.jpeg'

cv2.imwrite(filename, img)

print("After Saving Image: ")
print(os.listdir(directory))

print("Saved Successfully")
```

```
Before Saving Image:
[]
After Saving Image:
['saveImage.jpeg']
Saved Successfully
```

In [15]:
```
import cv2

path=r'C:\Users\amiti\DIP LAB\Azim.JPG'
directory = r'C:\Users\amiti\Desktop\New folder'

img=cv2.imread(path,cv2.IMREAD_GRAYSCALE)
cv2.imshow("JU Amit",img)
cv2.waitKey(0)
cv2.destroyAllWindows()

os.chdir(directory)

print("Before saving image:")
print(os.listdir(directory))

filename='AmitGREY.jpg'
cv2.imwrite(filename,img)

print("After saving image")
print(os.listdir(directory))

print("Successful")
```

```
Before saving image:
['JUGREY.jpg', 'NewAmit.JPG']
After saving image
['AmitGREY.jpg', 'JUGREY.jpg', 'NewAmit.JPG']
Successful
```

In [13]:
```
import os
import cv2

path = r'C:\Users\amiti\DIP Practice\Azim.JPG'
direct = r'C:\Users\amiti\Desktop\New folder'

img  = cv2.imread(path)
os.chdir(direct)

print("Before save")
print(os.listdir(direct))

filename = 'NewAmit.JPG'
cv2.imwrite(filename, img)

print("After save")
print(os.listdir(direct))

print("Print Successful")
```

```
Before save
[]
After save
['NewAmit.JPG']
Print Successful
```

In [19]:
```
import os
import cv2

path = r'C:\Users\amiti\DIP Practice\Azim.JPG'
directory =  r'C:\Users\amiti\Desktop\New folder'

img = cv2.imread(path, cv2.IMREAD_GRAYSCALE)
cv2.imshow("Amit", img)
cv2.waitKey(0)
cv2.destroyAllWindows()

os.chdir(directory)

print("Before")
print(os.listdir(directory))

cv2.imwrite("AMITazim.JPG", img)

print("After")
print(os.listdir(directory))

print("Saved Successfully")
```

```
Before
[]
After
['AMITazim.JPG']
Saved Successfully
```

In [ ]: