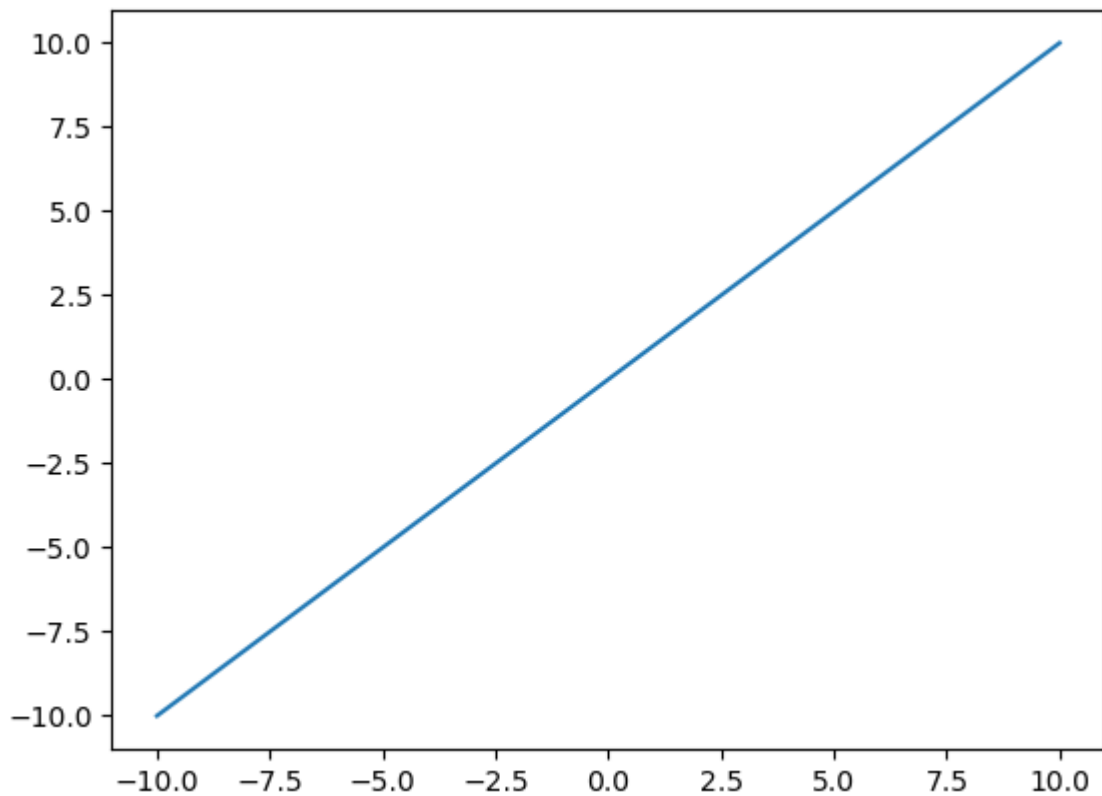


```
In [1]: import numpy as np
import matplotlib.pyplot as plt
```

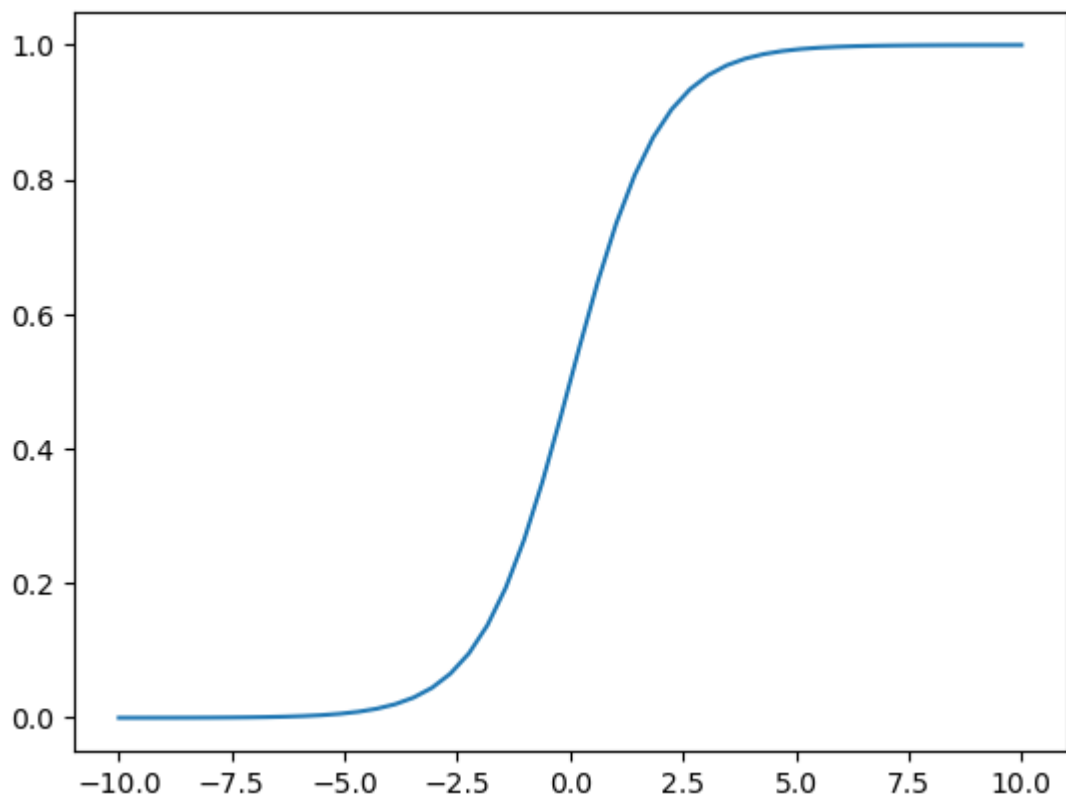
```
In [4]: def linear(x):
return x
```

```
In [5]: x=np.linspace(-10,10)
plt.plot(x,linear(x))
plt.show()
```



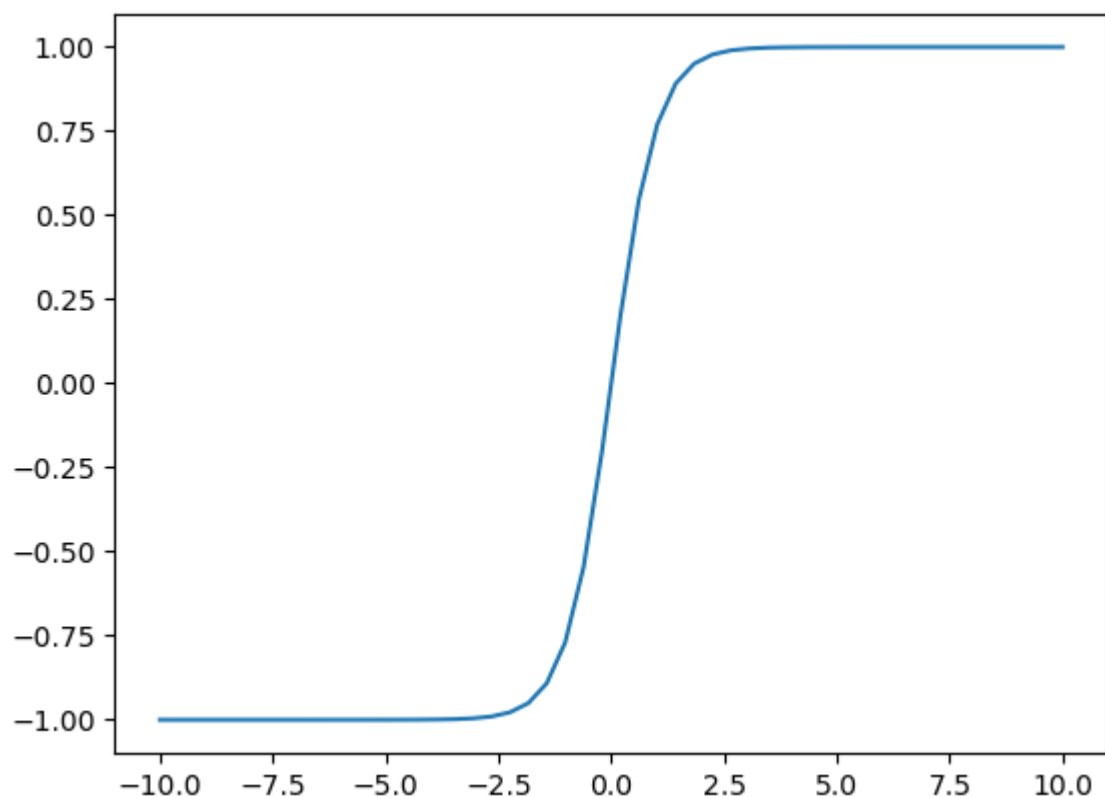
```
In [6]: def sigmoid(x):
return (1/(1+np.exp(-x)))
```

```
In [24]: x=np.linspace(-10,10)
plt.plot(x,sigmoid(x))
plt.show()
```



```
In [12]: def tanh(x):  
         return ((2/(1+np.exp(-2*x)))-1)
```

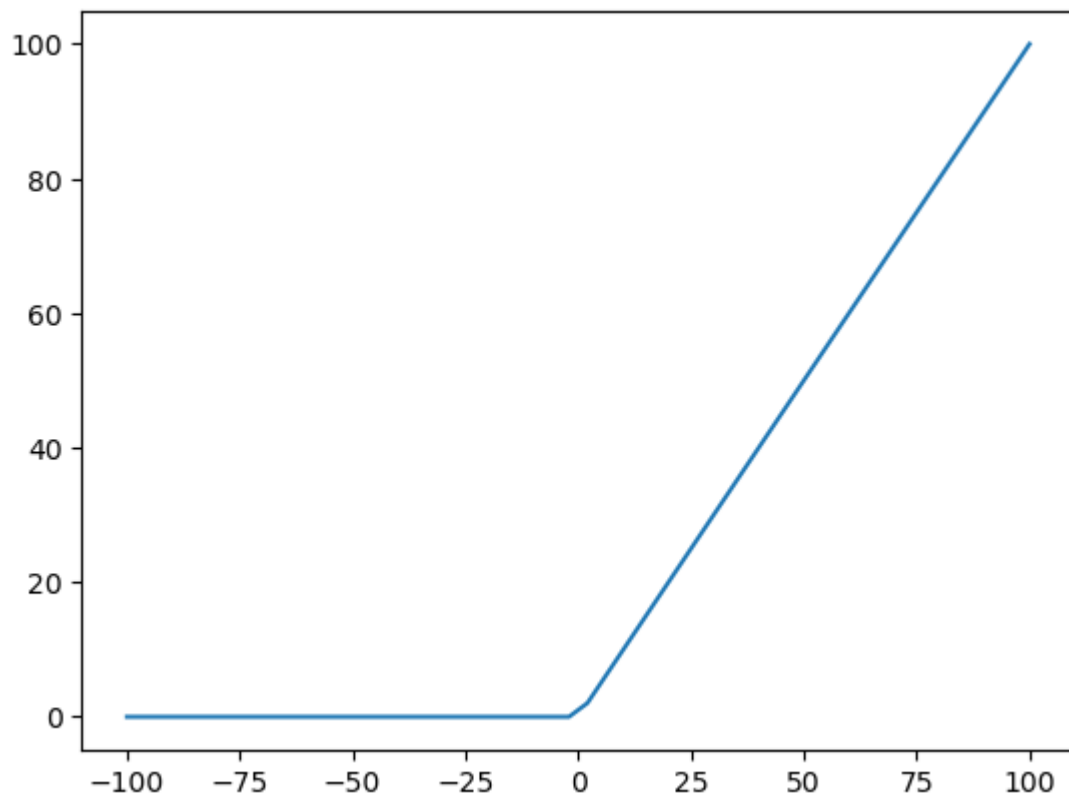
```
In [35]: x=np.linspace(-10,10)  
plt.plot(x,tanh(x))  
plt.show()
```



```
In [31]: def relu(x):  
         x1=[]  
         for i in x:  
             if i<0:
```

```
x1.append(0)
else:
    x1.append(i)
return x1
```

```
In [32]: x=np.linspace(-100,100)
plt.plot(x,relu(x))
plt.show()
```



```
In [20]: tanh(1)
```

```
Out[20]: 0.7615941559557646
```

```
In [ ]:
```