Program 1. Python program that demonstrates the use of the ReLU activation function in a basic neural network.

Aim:- Create a program that demonstrates the use of the ReLU activation function in a basic neural network.

Procedure:-

```
import tensorflow as tf from tensorflow.keras import layers, models
```

```
# Build a simple neural network with ReLU activation model = models.Sequential([
    layers.Dense(32, input_shape=(10,), activation='relu'),
    layers.Dense(1, activation='sigmoid')
])
```

Display the model summary

model.summary()

Output:-

Model: "sequential"

Layer (type)	Output Shape	Param #	-
dense (Dense)	(None, 32)	352	
dense_1 (Dense)	(None, 1)	33	-

Total params: 385 Trainable params: 385 Non-trainable params: 0