**Lab Exercise 2- Branching in Metaflow**

**Objective:**

To create a Metaflow pipeline that demonstrates how to implement branching logic based on certain conditions, allowing for different execution paths in the flow.

**Steps:**

**Step 1: Set Up the Environment**

1. **Install Metaflow** (if not already installed):

pip install metaflow

1. **Create a new Python file** for your flow, e.g., branching\_flow.py.

**Step 2: Define the Flow with Branching Logic**

Here’s an example flow that demonstrates branching:

from metaflow import FlowSpec, step

class BranchFlow(FlowSpec):

@step

def start(self):

self.next(self.a, self.b)

@step

def a(self):

self.x = 1

self.next(self.join)

@step

def b(self):

self.x = 2

self.next(self.join)

@step

def join(self, inputs):

print('a is %s' % inputs.a.x)

print('b is %s' % inputs.b.x)

print('total is %d' % sum(input.x for input in inputs))

self.next(self.end)

@step

def end(self):

pass

if \_\_name\_\_ == '\_\_main\_\_':

BranchFlow()