

## TENSORFLOW BASICS

### LAB

#### **TASK 1: TensorFlow Hello World**

```
import tensorflow as tf
print("TensorFlow version:", tf.__version__)
```

TensorFlow version: 2.8.0

```
# Construct a `Session` to execute the graph.
with tf.compat.v1.Session() as sess:
```

```
    hello=tf.constant("Hello, Tensorflow!")
```

```
    result = sess.run(hello)
    print(result)
```

b'Hello, Tensorflow!'

---

#### **TASK 2: GRAPH AND SESSION**

```
import tensorflow as tf
print("TensorFlow version:", tf.__version__)
```

TensorFlow version: 2.8.0

```
with tf.compat.v1.Session() as sess:
```

```
    a = tf.constant(50)
```

```
    b = tf.constant(40)
```

```
    c = tf.add(a, b)
```

```
    result = sess.run(c)
    print(result)
```

### **TASK 3**

Q1. In this task you are required define two matrix of `int32`. And perform following operations on them using `tensorflow session`.

1. Addition
2. Multiplication
3. Determinant of both the matrix
4. Print your results