

## Experiment No. 9

### Statement:

Demonstration of lathe machine operations (Facing, Turning, Parting).

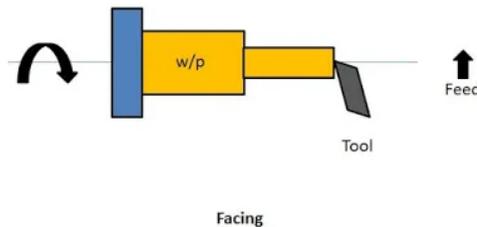
### Apparatus:

1. Lathe Machine
2. Machining Tools

### Theory:

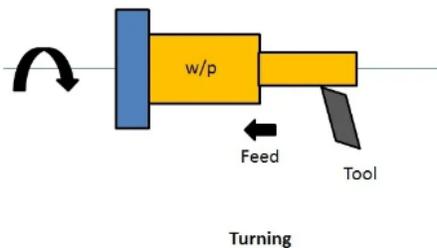
#### 1. Facing

It is the first operation that is done on the workpiece. It is a machining operation that is done to produce flat surfaces at the ends of the workpiece. This operation is performed by feeding the tool perpendicular to the axis of rotation of the chuck.



#### 2. Turning

In turning operation, the excess material is removed from the surface of the workpiece to produce a cylindrical surface of desired shape and size. During the turning operation, the feed is moved along the axis of rotation of the chuck. It reduces the diameter of the cylindrical workpiece.



#### 3. Parting Off

It is the process of cutting a workpiece after it has been machined to the required shape and size.

