Potentiometer:

Task:

- Connect the potentiometer to the Arduino and observe the resistance in serial monitor by varying the resistance.
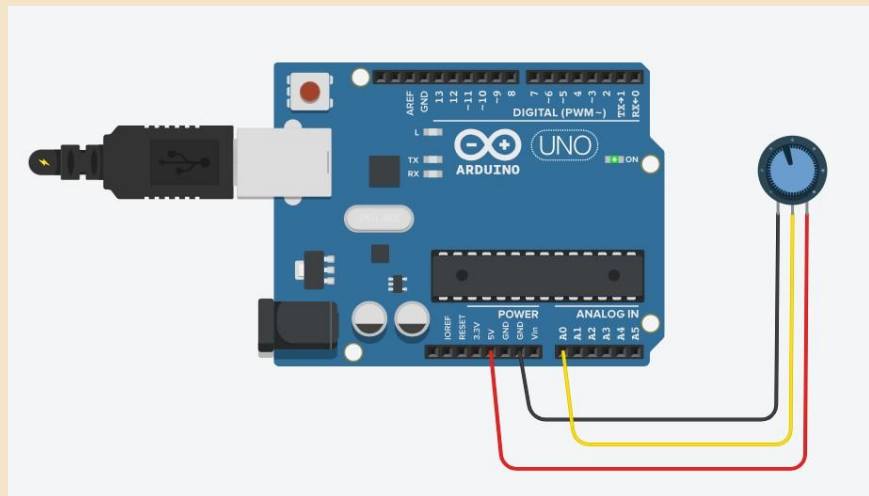
Questions:

➢ Identify the terminals of a potentiometer

➢ What are the general types of potentiometers used?

Components:
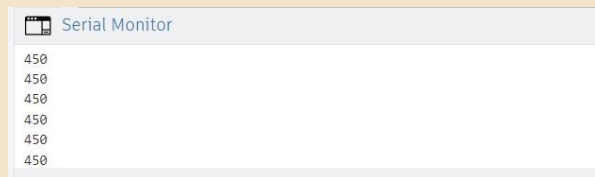
- Arduino
- Potentiometer

Code:

```
void setup()
{
  pinMode(A0, INPUT);
  Serial.begin(9600);
}

void loop()
{
  Serial.println(analogRead(A0));
  delay(10); // Delay a little bit to improve simulation performance
}
```

Output:

Serial Monitor
```
450
450
450
450
450
450
```

Now You Do Analog read and Analog Write Using Potentiometer and Buzzer

Task:

- Connect the potentiometer to the Arduino and observe the resistance in serial monitor by varying the resistance. Try to observe the pulse width modulation in oscilloscope. Connect a Buzzer and vary the intensity of sound based on potentiometer reading

Questions:

➢ Identify the terminals of a potentiometer

➢ What are the general types of potentiometers used?