**Exp-5 Simulation of A/D conversion using mbed**

**Aim:** Write a cpp program for A/D conversion in mbed simulator

**Software used:** mbed Compiler and simulator

**Program**

#include "mbed.h"

#include "C12832.h"

C12832 lcd(SPI\_MOSI, SPI\_SCK, SPI\_MISO, p8, p11);

AnalogIn pot(p15);

float ADCdata;

int main() {

while (1) {

lcd.cls();

float ADCdata = pot.read();

lcd.locate(3, 3);

lcd.printf("ADCdata: %.2f ", ADCdata\*5)

wait(1);

}

}

**Interfacing Diagram:**

**Results:**