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/*
 * This program is for Interfacing Bluetooth with Arduino
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 * Designed by: Team UTD - Hubli
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 *
 * Connect VCC of Bluetooth to 5v pin in Arduino
 * Connect GND of Bluetooth to Gnd pin in Arduino
 * Connect Txd pin of Arduino to 10th pin in Arduino
 * Connect Rxd pin of Arduino to 11th pin in Arduino
 *
 *
 * Upload this code and check output in Serial Monitor
 */

#include <SoftwareSerial.h>                                //Header file for Serial data
communication in Arduino
SoftwareSerial mySerial(10, 11);                          //Declaring 10th and 11th pin
as Txd and Rxd in Arduino

void setup()                                              //This executes only once in
a program execution
{
    Serial.begin(9600);                                  //Setting baud rate of
arduino and bluetooth to 9600 for equal bit transfer
    mySerial.begin(9600);
    Serial.println("HC-05 Bluetooth Control");           //Printing HC-05
Bluetooth Control on Serial monitor

}

void loop()
{
    if (mySerial.available())                            //if any data recieved by
bluetooth then enter the if loop
    {
        char Value = mySerial.read();                    //The value red from
bluetooth is stored in variable Value
        Serial.println(Value);                           //Printing the character on
Serial monitor
    }
}

```