Gebze Technical University
Department of Computer Engineering
CSE 107 - Introduction to Computer Science Lab.

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Content:

1. Reading from serial data using Arduino.
2. Recursive function design and implementation.

1. Reading from serial data using Arduino:

```
int incomingByte = 0; // for incoming serial data

void setup() {
  Serial.begin(9600); // opens serial port, sets data rate to 9600 bps
}

void loop() {
  // send data only when you receive data:
  if (Serial.available() > 0) {
    // read the incoming byte:
    incomingByte = Serial.read();

    // say what you got:
    Serial.print("Received byte: ");
    Serial.println(incomingByte, DEC);
    Serial.print("Received character: ");
    Serial.println(incomingByte);

  }
}
```

2. Task - 2. Recursive function design and implementation:

A string is palindrome, if string remains same after reversing sequence of its character. For example; “eyedipadanadapideye” is a palindrome string. Assume that you are given a string (character array) with length 100. Write an Arduino program that checks whether the given string is a palindrome or not. The program should report the result using the serial monitor.