```
1
2  int ledPins[10] = {2,3,4,5,6,7,8,9,10,11};
3
4  void setup() {
5    Serial.begin(9600);
6    Serial.println("Enter a decimal number (0 - 1000):");
7
8    for (int i = 0; i < 10; i++) {
9      pinMode(ledPins[i], OUTPUT);
10   }
11 }
12
13 void loop() {
14   if (Serial.available() > 0) {
15     int num = Serial.parseInt();
16
17     if (num < 0 || num > 1000) {
18       Serial.println("Enter a number between 0 and 1000.");
19     } else {
20       Serial.print("Decimal: ");
21       Serial.println(num);
22       Serial.print("Binary: ");
23
24       for (int i = 9; i >= 0; i--) {
25         int bit = (num >> i) & 1;
26         Serial.print(bit);
27         digitalWrite(ledPins[i], bit);
28       }
29       Serial.println();
30     }
31     Serial.readStringUntil('\n');
32     Serial.println("\nEnter next number (0 - 1000):");
33   }
34 }
35
```

Serial Monitor


```
13 void loop() {
14   if (Serial.available() > 0) {
15     int num = Serial.parseInt();
16
17     if (num < 0 || num > 1000) {
18       Serial.println("Enter a number between 0 and 1000.");
19     } else {
20       Serial.print("Decimal: ");
21       Serial.println(num);
22       Serial.print("Binary: ");
23
24       for (int i = 9; i >= 0; i--) {
25         int bit = (num >> i) & 1;
26         Serial.print(bit);
27         digitalWrite(ledPins[i], bit);
28       }
29       Serial.println();
30     }
31     Serial.readStringUntil('\n');
32     Serial.println("\nEnter next number (0 - 1000):");
33   }
34 }
35
```

Serial Monitor

```
Enter next number (0 - 1000):
Decimal: 991
Binary: 1111011111

Enter next number (0 - 1000):
```