

2024-2학기 자바프로그래밍2 2주차 실습

문제 1

```
1 package week2;
2
3 import java.util.*;
4
5 public class Exercise01 {
6
7     public static void main(String[] args) {
8
9         int n;
10        int digit;
11
12        Scanner input = new Scanner(System.in);
13
14        while(true) {
15            System.out.print("정수를 입력하세요: ");
16            n = input.nextInt();
17
18            if(n <= 0) break;
19
20            while(n > 0) {
21                digit = n % 10;
22                System.out.print(digit + " ");
23                n = n / 10;
24            }
25
26            System.out.println();
27        }
28
29        System.out.println("종료");
30
31        input.close();
32    }
33
34 }
```

문제 2

```
1 package week2;
2
3 import java.util.Scanner;
4
5 public class Exercise02 {
6
7     public static void main(String[] args) {
8
9         int n = 0;
10
11        Scanner input = new Scanner(System.in);
12        System.out.print("높이를 입력하세요: ");
13        n = input.nextInt();
14
15        for(int i = 1; i <= n; i++) {
16            for(int j = 0; j < n - i; j++)
17                System.out.print(" ");
18            for(int j = 0; j < i; j++)
19                System.out.print(i%10 + " ");
20            System.out.println();
21        }
22
23        input.close();
24    }
25
26 }
```

문제 3

```
1 package week2;
2
3 public class Exercise03 {
4
5     public static void main(String[] args) {
6
7         final int SUBJECT = 3;
8         final int STUDENT = 5;
9         int score[][] = {
10             {90, 57, 84},
11             {86, 33, 75},
12             {27, 90, 77},
13             {50, 71, 53},
14             {75, 45, 97}
15         };
16
17         double avg[] = { 0, 0, 0 };
18
19         System.out.print("평균(C Java Python): ");
20         for (int i = 0; i < SUBJECT; i++) {
21             for (int j = 0; j < STUDENT; j++) {
22                 avg[i] += score[j][i];
23             }
24             avg[i] = avg[i] / STUDENT;
25             System.out.printf("%.1f ", avg[i]);
26         }
27
28         System.out.printf("\nC 평균 미만 학생: ");
29         for (int i = 0; i < STUDENT; i++) {
30             if (score[i][0] < avg[0])
31                 System.out.print(i + 1 + " ");
32         }
33
34         System.out.printf("\nJava 평균 미만 학생: ");
35         for (int i = 0; i < STUDENT; i++) {
36             if (score[i][1] < avg[1])
37                 System.out.print(i + 1 + " ");
38         }
39
40         System.out.printf("\nPython 평균 미만 학생: ");
41         for (int i = 0; i < STUDENT; i++) {
42             if (score[i][2] < avg[2])
43                 System.out.print(i + 1 + " ");
44         }
45     }
46
47 }
```