## 프로그램 실행 설명

o, empty schedule 229 ingez

① Select schedule -> scheduleList 1~5 출력 / 숫자 고르기

-> 1 Add a

1 Add activity -> activityList 1~8 출력 / 숫자고르기 날짜, 시간 고르기

② Remove activity -> 전체 스케쥴표와 가격 출력 삭제할 날짜, 시간 고르기

③ Print schedule -> 전체 스케쥴표와 가격 출력

② Edit schedule -> 1 Make a new schedule -> 이름, 전체 일 수 받고 schedule 생성

② Copy an existing sch -> scheduleList 1~5 출력 / 숫자, 이름 고르기

MESS.

③ End program -> 프로그램 종료

## Class Activity

```
1 package assignment1;
2
3 public class Activity {
       private String name, location;
 5
       private int price;
6
       public Activity() {}
7
      public Activity(String name, String location, int price) {
8⊝
           this.name = name;
9
           this.location = location;
10
           this.price = price;
11
12
       }
13
       public String toString() { - のctivityList 1~8 きのん ひと
14⊖
           return name + "(" + location + ", " + price +" won)";
15
16
       }
17
18
       public int getPrice() { return this.price; }
19
       public String getName() { return this.name; }
20 }
```

## Class Schedule

```
package assignment1;
   public class Schedule {
4
       private String name;
5
       private int days, expense;
                                                                                            Day (Just1)
6
       private Activity[][] plan;
       public static int scheduleNum;
                                                                         9:00
8
Q=
       public Schedule(String name, int days) {
10
           this.name = name:
11
           this.days = days;
12
           this.expense = 0;
                                                                        20:00
13
           plan = new Activity[days][12];
14
           scheduleNum++;
15
       }
16
                                                                                  plan( -)[ o]
17⊝
       public Schedule(String name, Schedule s1) {
18
           this.name = name;
19
           this.days = s1.days;
20
           this.expense = s1.expense;
21
                                                         12 90% दिना यादि मेर परार
           this.plan = new Activity[days][12];
22
           for (int i = 0; i < days; i++)</pre>
               for (int j = 0; j < 12; j++)
23
                   this.plan[i][j] = s1.plan[i][j];
24
25
           scheduleNum++;
26
       }
27
28⊜
       public String getName() {
29
           return this.name;
30
31
32⊝
       public int getExpense() {
33
           return this.expense;
34
35
36€
       public int setPlan(Activity activity, int day, int time) {
37
          if (day > this.days || plan[day - 1][time - 9] != null)
38
               return 0;
                                                                               activity 209 plans shirt of
39
           this.plan[day - 1][time - 9] = activity;
40
           this.expense += activity.getPrice();
41
42
44⊖
       public int removePlan(int day, int time) {
                                                                                -> SHOW WITHER LIZED ACTURY >
45
           fif (day > this.days || plan[day - 1][time - 9] == null) \

46
                return 0;
47
            this.expense -= this.plan[day - 1][time - 9].getPrice();
                                                                                    remove by ore
            this.plan[day - 1][time - 9] = null;
49
            return 1;
50
        }
51
52⊖
        public String print(int day, int time) {
                                                                                                     activity m sug
                                                                      7 GARY GROWN YOUR
53
            if (plan[day - 1][time - 9] == null)
54
                return "----";
                                                                                              200 activity of 323
55
            else
56
                return this.plan[day - 1][time - 9].getName();
57
58
59⊜
        public void printSchedule() {
                                                                                               Day 1
                                                                                                           Day 2
60
            for (int i = 1; i \leftarrow days; i++)
                                                                                   9:00
61
                System.out.print("-
                                                                                               ----
                                                                                                           ----
                                                                                   10:00
62
            System.out.println();
                                                                                   12:00
                                                                                               ----
63
            System.out.print(
                                                                                               ----
                                                                                                           ----
                                                                                   13:00
            for (int i = 1; i <= days; i++)</pre>
64
                                                                                   14:00
                System.out.printf("%-16s", "Day " + i);
                                                                                   15:00
                                                                                               ----
                                                                                   16:00
                                                                                               ----
66
            System.out.println();
                                                                                   17:00
67
            for (int i = 0; i < 12; i++) {
                                                                                   18:00
                System.out.printf("%-16s", i + 9 + ":00");
68
                                                                                                           ----
                                                                                   20:00
69
                for (int j = 1; j <= days; j++)</pre>
70
                    System.out.printf("%-16s", print(j, i + 9));
                                                                                   Total expenses: 0 won
71
                System.out.println();
72
73
            for (int i = 1; i <= days; i++)</pre>
74
                System.out.print("-----
75
            System.out.println();
76
            System.out.println("Total expenses: " + getExpense() + " won");
77
            for (int i = 1; i <= days; i++)</pre>
78
                System.out.print("
79
            System.out.println();
80
81 }
```

## Class TravelScheduler

```
1 package assignment1;
 3 import java.util.Scanner;
 4
 5 public class TravelScheduler {
 6
 7⊝
           public static void main(String[] args) {
 8
                  Scanner scan = new Scanner(System.in);
 9
10
                  Schedule[] scheduleList = new Schedule[5];
11
                  Activity[] activityList = new Activity[8];
12
                  activityList[0] = new Activity("Hiking", "Mountain", 0);
13
                  activityList[1] = new Activity("Horse Riding", "Hill", 3000);
14
                 activityList[1] = new Activity( Horse Riding , Hill , 3000);
activityList[2] = new Activity("Visiting Museum", "Museum", 8000);
activityList[3] = new Activity("Watching movie", "Theater", 11000);
activityList[4] = new Activity("Fishing", "Sea", 15000);
activityList[5] = new Activity("Surffing", "Beach", 20000);
activityList[6] = new Activity("Camping", "Field", 30000);
activityList[7] = new Activity("Paragliding", "Mountain", 50000);
15
16
17
18
19
20
21
22
                  int input[] = new int[10]; - input 0 = 2 2/ =
23
                  int check;
24
                  for (; input[0] != 3;) {// 3을 고르면 출력후 빠져나감
25
                        System.out.println("1) Select schedule");
System.out.println("2) Edit schedule");
System.out.println("3) End program");
26
27
28
29
                        System.out.print("Select menu: ");
30
                        input[0] = scan.nextInt();
31
```

```
Select Schedule 459
32
               switch (input[0]) {
               case 1:// 1) Select schedule
33
34
                       // 만들어진 schedule을 나열
35
                   for (int i = 0; i < scheduleList.length; i++) {</pre>
                       if (scheduleList[i] != null)
36
                           System.out.println(i + 1 + ") " + scheduleList[i].getName());
37
38
                       else
                           System.out.println(i + 1 + ") EMPTY SCHEDULE");
39
40
                   System.out.print("Select a schedule: ");
41
42
                   input[1] = scan.nextInt();
                   if (input[1] == 0 || scheduleList[input[1] - 1] == null) // 0 또는 EMPTY SCHEDULE을 선택하면 이전 메뉴로 돌아 감
43
44
                       continue;
45
                    // Schedule을 선택하면 해당 schedule에 대한 수정 및 출력을 반복 수행
                   do {// 0고르면 탈출
46
47
                       System.out.println("1) Add activity");
                       System.out.println("2) Remove activity");
48
49
                       System.out.println("3) Print schedule");
50
                       System.out.print("Select menu: ");
51
                       input[2] = scan.nextInt();
52
                       switch (input[2]) {
53
                       case 0:
54
                           break;
55
                       case 1:// input[1] M add activity
56
                           for (int i = 0; i < activityList.length; i++)</pre>
57
                               System.out.println(i + 1 + ") " + activityList[i].toString());
                           System.out.print("Select activity to do: ");
58
                           input[3] = scan.nextInt();
59
60
                           System.out.print("Enter the day to do activity: ");
                           input[4] = scan.nextInt();
61
                           System.out.print("Enter the time to do activity(9~20): ");
63
                           input[5] = scan.nextInt();
                           check = scheduleList[input[1] - 1].setPlan(activityList[input[3] - 1], input[4], input[5]);
64
65
                           if (check == 0)
                               System.out.println("Fail to add activity"); ) の 에 있는 3 / へればは はの オラ
66
67
                           break;
68
                       case 2:// input[1] ⋈ remove activity
69
70
                           scheduleList[input[1] - 1].printSchedule();
                           System.out.print("Enter the day to remove activity: ");
71
                           int day = scan.nextInt();
72
73
                           System.out.print("Enter the time to remove activity: ");
74
                           int time = scan.nextInt();
75
                           check = scheduleList[input[1] - 1].removePlan(day, time);
76
                           if (check == 1)
77
                               System.out.println("Removed successfully");
78
                           break;
79
80
                       case 3:// input[1]에 print schedule
81
                           scheduleList[input[1] - 1].printSchedule();
82
                       }
                   } while (input[2] != 0); -0 2207 &-while? W.3.
84
85
                   break;
86
```

```
nen
 87
                case 2:// 2) Edit schedule //Schedule을 초기화하며 생성
 88
                        System.out.println("1) Make a new schedule");
 89
                        System.out.println("2) Copy an existing schedule");
 90
 91
                        System.out.print("Select menu: ");
 92
                        input[6] = scan.nextInt();
 93
 94
                        switch (input[6]) {
 95
                        case 0:
 96
                            break;
 97
                        case 1:// 1) Make a new schedule
 98
                                // Make a new schedule 이름, 전체 일 수를 입력 받아서 schedule 생성
                            System.out.print("Enter a name for the schedule: ");
 99
100
                            scan.nextLine();
101
                            String name = scan.nextLine();
                            System.out.print("Enter travel days: ");
102
103
                            int days = scan.nextInt();
                            scheduleList[Schedule.scheduleNum] = new Schedule(name, days); -0 Schedule 75041
104
105
106
                        case 2:// 2) Copy an existing schedule
107
                                // Copy an exist schedule
108
                            for (int i = 0; i < scheduleList.length; i++) {</pre>
109
                                if (scheduleList[i] != null)
                                    System.out.println(i + 1 + ") " + scheduleList[i].getName());
110
111
                                    System.out.println(i + 1 + ") EMPTY SCHEDULE");
112
113
114
                            System.out.print("Select the schedule to copy: ");
115
                            input[7] = scan.nextInt();
116
                            scan.nextLine();
                            if (scheduleList[input[7] - 1] == null) // EMPTY SCHEDULE을 선택하면 이전 메뉴로 돌아 감
117
118
                                continue;
                                                                                      copy constructorally
                            System.out.print("Enter a new schedule name: ");
119
120
                            String s_1 = scan.nextLine();
                            scheduleList[Schedule.scheduleNum] = new Schedule(s_1, scheduleList[input[7] - 1]);
121
122
                                                                                             Schedul 371/44
123
                    } while (input[6] != 0); +0 0 230 b-while 8 33
124
125
126
                case 3:// 3) End program (JEn 👆 12214 727
127
128
                    break;
                }
129
```