

PREFINALS TASK PERFORMANCE

Birth Month

JAVA

C: > Users > Gie > OneDrive > Documents > VScode > BirthMonth.java > BirthMonth > main(String[])

```
1  import java.util.Set;
2  import java.util.HashSet;
3  import java.util.Collections;
4  import java.util.Scanner;
5  public class BirthMonth {
    Run | Debug
6      public static void main(String[] args) {
7          Scanner as = new Scanner(System.in);
8
9          HashSet group1 = new HashSet();
10         HashSet group2 = new HashSet();
11         HashSet self = new HashSet();
12
13         for(int i = 1; i < 4; i++){
14             System.out.print("Enter Birth Month " + i + " : ");
15             String G1 = as.next();
16             group1.add(G1);
17         }
18         for(int a = 1; a < 4; a++){
19             System.out.print("Enter Birth Month " + a + " : ");
20             String G2 = as.next();
21             group2.add(G2);
22         }
23         HashSet Union = new HashSet(group1);
24         HashSet Intersection = new HashSet(group1);
25         HashSet Difference = new HashSet(group1);
26
27         Union.addAll(group2);
28         Intersection.retainAll(group2);
29         Difference.removeAll(group2);
```

```
31         System.out.println("Group 1: " + group1 );
32         System.out.println("Group 2: " + group2 );
33
34         System.out.print("Enter your birth month: ");
35         String BDay = as.next();
36         self.add(BDay);
37
38         System.out.println("Union : " + Union);
39         System.out.println("Intersection : " + Intersection);
40         System.out.println("Difference : " + Difference);
41
42         if(group1.containsAll(self) && group2.containsAll(self)){
43             System.out.println("You have the same birth month with one of your classmate.");
44         }
45         else{
46             System.out.println("You don't have the same birth month with one of your classmate.");
47         }
48     }
49 }
50
```

PYTHON:

```
9  group1 = set()
10 group2 = set()
11 Self = set()
12
13 for x in range(1, 4):
14     print("Enter Birth Month " + str(x) + " : ")
15     birth1 = input()
16     group1.add(birth1)
17
18 for y in range(1, 4):
19     print("Enter Birth Month " + str(y) + " : ")
20     birth2 = input()
21     group2.add(birth2)
22
23 print("Group 1: " + str(group1))
24 print("Group 2: " + str(group2))
25
26 print("Enter your Birth Month: ")
27 selfBirth = input()
28 Self.add(selfBirth)
29
30
31 print("Union: " + str(group1 | group2))
32 print("Intersection: " + str(group1 & group2))
33 print("Difference: " + str(group1 - group2))
34
35
```

OUTPUT:

JAVA

```
Enter Birth Month 1 : June
Enter Birth Month 2 : July
Enter Birth Month 3 : August
Enter Birth Month 1 : September
Enter Birth Month 2 : October
Enter Birth Month 3 : June
Group 1: [June, July, August]
Group 2: [June, October, September]
Enter your birth month: July
Union : [June, October, September, July, August]
Intersection : [June]
Difference : [July, August]
You don't have the same birth month with one of your classmate.
PS C:\Users\Gie> █
```

PYTHON

```
Enter Birth Month 1 :
June
Enter Birth Month 2 :
July
Enter Birth Month 3 :
August
Enter Birth Month 1 :
May
Enter Birth Month 2 :
April
Enter Birth Month 3 :
June
Group 1: {'June', 'July', 'August'}
Group 2: {'May', 'April', 'June'}
Enter your Birth Month:
June
Union: {'June', 'August', 'April', 'May', 'July'}
Intersection: {'June'}
Difference: {'August', 'July'}
```