

5A

```
1 class printf5A {
2     public static void main(String[] args) {
3         double amt1 = 2312.126, amt2 = -1425.672;
4         System.out.printf( "...*....1....*....2....*....3....*....4 \n");
5         System.out.printf( " : %12.4f \n", amt1 );
6         System.out.printf( " : %,12.4f \n", amt2 );
7         System.out.printf( " : %(,12.2f \n", amt1);
8         System.out.printf( " : %(,12.2f \n", amt2 );
9         System.out.printf( " : %+,12.2f \n", amt1);
10        System.out.printf( " : %+,12.2f \n", amt2 );
11        System.out.printf( "...*....1....*....2....*....3....*....4 \n");
12        System.out.printf( "%10s%10S \n", "Java", "Java");
13        System.out.printf( "%-10S%-10s \n", "Math", "Math");
14    }
15 }
```

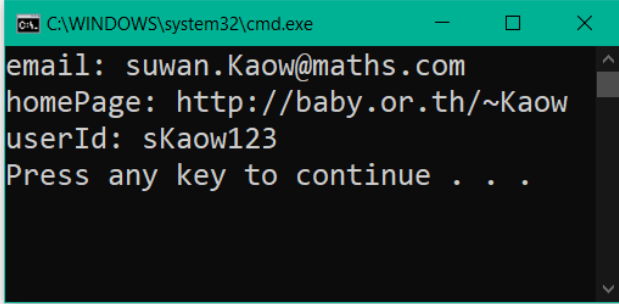
```
C:\WINDOWS\system32\cmd.exe
....*....1....*....2....*....3....*....4
:      2312.1260
: -1,425.6720
:      2,312.13
:      (1,425.67)
:      +2,312.13
:      -1,425.67
....*....1....*....2....*....3....*....4
      Java      JAVA
MATH      Math
Press any key to continue . . .
```

----- Java Compile -----
Output completed (0 sec consumed) - Normal Termination

Exercise5B.java Exercise5C.java Exercise5D.java Exercise5E.java

5E1

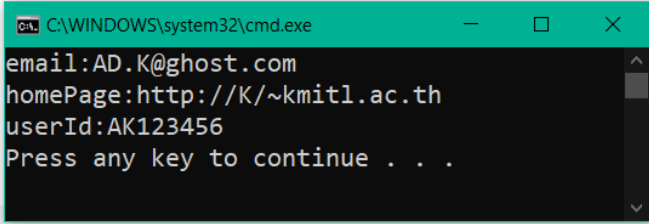
```
1 import javax.swing.JOptionPane;
2 public class Exercise5E {
3     public static String email(String name,String surname,String domain){
4         return name + "." + surname + "@" + domain;
5     }
6     public static String homePage(String surname,String webDomain){
7         return "http://" + webDomain + "/" + surname;
8     }
9     public static String userId(String firstname,String surname){
10        String tmp = surname + "1234567";
11        return firstname.substring(0,1) + tmp.substring(0,7);
12    }
13    public static void main(String[] args){
14        String name = JOptionPane.showInputDialog("Insert a Name");
15        String lastname = JOptionPane.showInputDialog("Insert a LastName");
16        String domain = JOptionPane.showInputDialog("Insert a domain");
17        String webDomain = JOptionPane.showInputDialog("Insert a web domain");
18        String address = email(name, lastname, domain);
19        String webPage = homePage(lastname, webDomain);
20        String account = userId(name, lastname);
21
22        System.out.println("email: " + address);
23        System.out.println("homePage: " + webPage);
24        System.out.println("userId: " + account);
25        System.exit(0);
26    }
27 }//Supawit Saengrattanayon 64050694
```



```
----- Java Compile -----
Output completed (0 sec consumed) - Normal Termination
```

5E2

```
4     return name+"."+surname+"@" +domain;
5     }
6     public static String homePage(String surname,String webDomain){
7         return "http://" + surname + "/" + webDomain;
8     }
9     public static String useId(String firstname,String lastname){
10        String tmp = lastname+ "1234567";
11        return firstname.substring(0,1)+tmp.substring(0,7);
12    }
13    public static void main(String[]args){
14        String name = JOptionPane.showInputDialog("Insert a Name");
15        String lastname = JOptionPane.showInputDialog("Insert a LastName");
16        String domain = JOptionPane.showInputDialog("Insert a domain");
17        String webDomain = JOptionPane.showInputDialog("Insert a web domain");
18        String address = email(name,lastname,domain);
19        String webPage = homePage(lastname,webDomain);
20        String account = useId(name,lastname);
21
22        System.out.println("email:"+address);
23        System.out.println("homePage:"+webPage);
24        System.out.println("userId:"+account);
25        System.exit(0);
26    }
27 }//Supawit Saengrattanayon 64050694
```



```
----- Java Compile -----
Output completed (0 sec consumed) - Normal Termination
```

Exercise5B.java Exercise5C.java Exercise5D.java Exercise5E.java

5A

5A

Lab 5: ชื่อ พช กวีชัย นวรัตนกุล รหัสประจำตัว 64050604 กลุ่ม 6 หน้า 17

1. (5A) จงรันโปรแกรม และเขียนผลที่แสดงบนจอภาพ ลงบนกระดาษที่ให้ พร้อมอธิบายผลที่เกิดขึ้น

```
class printf5A {
    public static void main(String[] args) {
        double amt1 = 2312.126, amt2 = -1425.672;
        System.out.printf("....*....1....*....2....*....3....*....4 %n");
        System.out.printf(" : %12.4f %n", amt1 );
        System.out.printf(" : %-12.4f %n", amt2 );
        System.out.printf(" : %(12.2f %n", amt1);
        System.out.printf(" : %(12.2f %n", amt2 );
        System.out.printf(" : %+12.2f %n", amt1);
        System.out.printf(" : %+12.2f %n", amt2 );
        System.out.printf("....*....1....*....2....*....3....*....4 %n");
        System.out.printf("%10s%10S \n", "Java", "Java");
        System.out.printf("%-10S%-10s \n", "Math", "Math");
    }
}
```

	*	1	*	2	*	3	*	4
1*1....*2....*3....*4
2	:	2312.1260						
3	:	1,425.6720						
4	:	2,312.13						
5	:	(1,425.67)						
6	:	+2,312.13						
7	:	-1,425.67						
8*1....*2....*3....*4
9		Java		JAVA				
10	MATH		Math					
11								
12								
13								

การจัดรูปแบบการพิมพ์ ด้วยเมทอด printf()

พิมพ์ตัวเลขทศนิยม ตัวกำหนดรูปแบบคือ %.f

พิมพ์ตัวเลขจำนวนเต็ม ตัวกำหนดรูปแบบคือ %d

พิมพ์ตัวเลขขีดซ้าย ตัวกำหนดรูปแบบคือ %.d %.f

พิมพ์ตัวเลขลบในวงเล็บ ตัวกำหนดรูปแบบคือ %cd %cf

พิมพ์ + หน้าตัวเลข ตัวกำหนดรูปแบบคือ %.+d %.+f

พิมพ์ข้อความ ตัวกำหนดรูปแบบคือ %s

พิมพ์ข้อความเป็นตัวพิมพ์ใหญ่ ตัวกำหนดรูปแบบคือ %.S

5E

Lab 5: ชื่อ ผศ. ศุภวิชญ์ อมรวิเศษ รหัสประจำตัว 64050604 กลุ่ม 6 หน้า 21

```
import javax.swing.JOptionPane;
public class Exercise5E {
    public static String email (String name, String surname, String domain) {
        return name + "." + surname + "@" + domain;
    }
    public static String homePage(String surname, String webDomain) {
        return "http://" + webDomain + "/" + surname ;
    }
    public static String userId(first name, surname) {
        String tmp = surname + "1234567"; // จัดให้ tmp ยาวอย่างน้อย 7 ตัวจากซ้าย
        return first name.substring(0,1) + tmp.substring(0,7);
    }
    public static void main(String[] args) {
        String name = JOptionPane.showInputDialog("Insert a Name");
        String lastname = JOptionPane.showInputDialog("Insert a Lastname");
        String domain = JOptionPane.showInputDialog("Insert a domain");
        String webDomain = JOptionPane.showInputDialog("Insert a web domain");
        String address = email(name, lastname, domain);
        String webPage = homePage(lastname, webDomain);
        String account = userId(name, lastname);

        System.out.println("email: " + address );
        System.out.println("homePage: " + webPage );
        System.out.println("userId: " + account );
        System.exit(0);
    }
}
```

Data Test 1: ป้อนเป็นอินพุต

First name: **suwan**
Lastname : **Kaow**
Domain: **maths.com**
Web domain: **baby.or.th**
ผลลัพธ์บนจอคือ
email: suwan.kaow@maths.com
homepage: http://baby.or.th/~Kaow
userId: sKaow123

Data Test 2: ป้อนเป็นอินพุต

First name: **AD**
Lastname : **K**
Domain: **ghost.com**
Web domain: **kmitl.ac.th**
ผลลัพธ์บนจอคือ
email: AD.K@ghost.com
homepage: http://kmitl.ac.th/~K
userId: AK123456