

- เขียนโปรแกรมนับคำจากประโยคที่พิมพ์เข้าไป จากนั้นแสดงประโยคที่มีการสลับคำจากขวาไปซ้าย

RESULT_EX 1:

Enter : Hello my name is Pokemon

5 words

Reverse : Pokemon is name my Hello

The screenshot shows a Notepad++ window with the following Java code in Post2.java:

```

1  import java.util.Scanner;
2  class Post2{
3      public static void main(String[] args){
4          Scanner sc = new Scanner(System.in);
5          System.out.print("Enter Your Sentences : ");
6          String input = " "+sc.nextLine();
7          int count, round=0;
8          int posStr=input.length();
9          int lastStr = input.lastIndexOf(" ",posStr);
10         String keepLength="",keepStr="";
11         for(count=0; count<input.length();){
12             keepLength=input.substring(lastStr,posStr);
13             lastStr=input.lastIndexOf(" ",posStr-keepLength.length()+1);
14             posStr-=1;
15             keepStr+=keepLength;
16             count+=keepLength.length();
17             round++;
18         }
19         System.out.println(+round+" words");
20         System.out.println("Reverse : " + keepStr.substring(1,keepStr.length()));
21     }
22 }

```

The console output shows the execution of the program:

```

javac "Post2.java"
Process started >>>
<<< Process finished. (Exit code 0)
java "Post2"
Process started >>>
Enter Your Sentences : Hello my name is Pokemon
5 words
Reverse : Pokemon is name my Hello
<<< Process finished. (Exit code 0)
===== READY =====

```

The status bar at the bottom indicates: Java source file, length : 711, lines : 22, Ln : 22, Col : 2, Sel : 0 | 0, Dos\Windows, UTF-8, INS.

3. ทำการแสดงผลคูณของตัวประกอบที่เป็นจำนวนเฉพาะของเลขจำนวนเต็มบวกที่รับค่าผ่านทางแป้นพิมพ์

RESULT_EX 1:

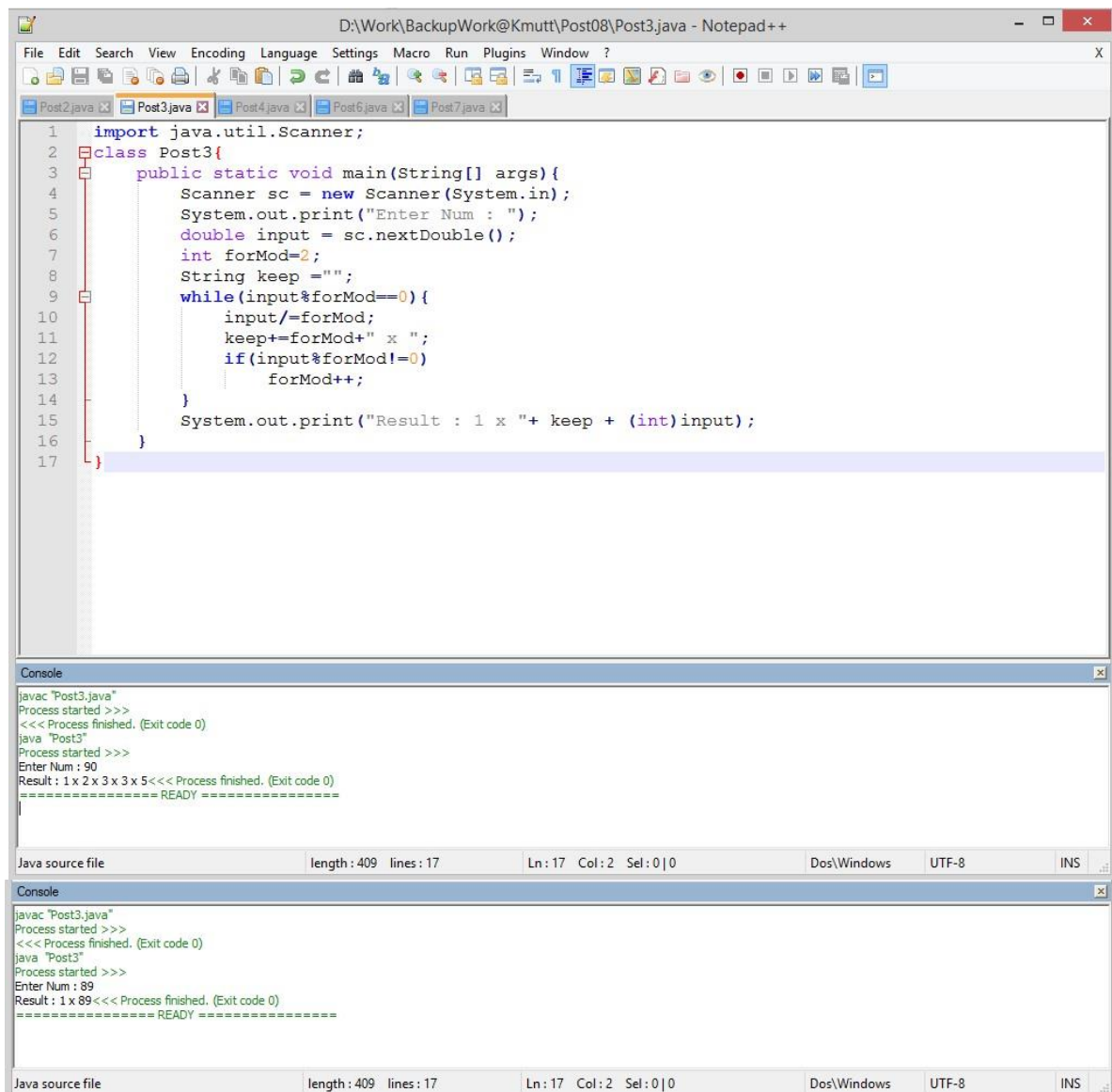
Enter Num : 90

Result : 1 X 2 X 3 X 3 X 5

RESULT_EX 2:

Enter Num : 89

Result : 1 X 89



The screenshot shows a Notepad++ window with the title "D:\Work\BackupWork@Kmutt\Post08\Post3.java - Notepad++". The editor contains the following Java code:

```
1 import java.util.Scanner;
2 class Post3{
3     public static void main(String[] args){
4         Scanner sc = new Scanner(System.in);
5         System.out.print("Enter Num : ");
6         double input = sc.nextDouble();
7         int forMod=2;
8         String keep = "";
9         while(input%forMod==0){
10             input/=forMod;
11             keep+=forMod+" x ";
12             if(input%forMod!=0)
13                 forMod++;
14         }
15         System.out.print("Result : 1 x "+ keep + (int)input);
16     }
17 }
```

Below the editor, there are two console windows. The first console window shows the output for input 90:

```
javac "Post3.java"
Process started >>>
<<< Process finished. (Exit code 0)
java "Post3"
Process started >>>
Enter Num : 90
Result : 1 x 2 x 3 x 3 x 5<<< Process finished. (Exit code 0)
===== READY =====
```

The second console window shows the output for input 89:

```
javac "Post3.java"
Process started >>>
<<< Process finished. (Exit code 0)
java "Post3"
Process started >>>
Enter Num : 89
Result : 1 x 89<<< Process finished. (Exit code 0)
===== READY =====
```

At the bottom of each console window, there is a status bar showing "Java source file", "length : 409 lines : 17", "Ln : 17 Col : 2 Sel : 0 | 0", "Dos\Windows", "UTF-8", and "INS".

4. Random เลข 3 หลัก โดยทั้ง 3 หลักจะต้องไม่ซ้ำกันแสดงผลออกทางหน้าจอจากนั้นนำเลข 3 หลักมาเรียงจากน้อยไปมาก จากนั้นแสดงผลออกทางหน้าจอ เป็นทศนิยม 2 ตำแหน่ง

RESULT_EX 1:

Random Num is : 598

Sort Num : 589

589.00

```
D:\Work\BackupWork@Kmutt\Post08\Post4.java - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
Post2.java Post3.java Post4.java Post5.java Post6.java Post7.java
1 import java.text.DecimalFormat;
2 class Post4{
3     public static void main(String[] args){
4         DecimalFormat df = new DecimalFormat("000.00");
5         String keep="";
6         //random
7         int count,rand,rand1=0,rand2=0,rand3=0;
8         for(count=0; count<3; count++){
9             {
10                 rand=(int)(Math.random()*10);
11                 keep+=rand;
12                 if(count==0)
13                     rand1=rand;
14                 if(count==1)
15                     rand2=rand;
16                 if(count==2)
17                     rand3=rand;
18             }
19             while(rand1==rand2||rand1==rand3||rand2==rand3||rand2==rand1||rand3==rand1||rand3==rand2)
20             {
21                 rand1=(int)(Math.random()*10);
22                 rand2=(int)(Math.random()*10);
23                 rand3=(int)(Math.random()*10);
24             }
25             System.out.println("Random Num is : "+rand1+rand2+rand3);
26             //sorting
27             int max,mid,min;
28             if(rand1>rand2){
29                 if(rand1>rand3){
30                     max=rand1;
31                     if(rand2>rand3){
32                         mid=rand2;
33                         min=rand3;
34                     }
35                     else {
36                         mid=rand3;
37                         min=rand2;
38                     }
39                 }
40                 else{
41                     mid=rand1;
42                     if(rand2>rand3){
43                         max=rand2;
44                         min=rand3;
45                     }
46                     else{
47                         max=rand3;
48                         min=rand2;
49                     }
50                 }
51             }
52             else
53             if(rand2>rand3){
54                 max=rand2;
55                 if(rand1>rand3){
56                     mid=rand1;
57                     min=rand3;
58                 }
59                 else {
60                     mid=rand3;
61                     min=rand1;
62                 }
63             }
64             else {
65                 max=rand3;
66                 mid=rand2;
67                 min=rand1;
68             }
69             System.out.println("Sort Num : "+min+mid+max);
70             //format
```

```
71 min*=100;
72 mid*=10;
73 System.out.println(df.format(min+mid+max));
74 }
75 }
```

Console

```
javac "Post4.java"
Process started >>>
<<< Process finished. (Exit code 0)
java "Post4"
Process started >>>
Random Num is : 915
Sort Num : 159
159.00
<<< Process finished. (Exit code 0)
===== READY =====
```

Java source file length: 1412 lines: 75 Ln: 2 Col: 13 Sel: 0|0 Dos\Windows UTF-8 INS

6. เขียนโปรแกรมนับคำจาก text file พร้อมนับว่าพบจำนวนกี่คำ

RESULT_EX 1:

Text File:

“ant head man steel ant man work by daylight”

these file has 9 words

D:\Work\BackupWork@Kmutt\Post08\Post6.java - Notepad++

```
1 import java.io.*;
2 import java.util.Scanner;
3 class Post6{
4     public static void main(String[] args){
5         File f = new File("file.txt");
6         FileReader fr = null;
7         BufferedReader br = null;
8         String word;
9         try {Scanner sc= new Scanner(new FileInputStream(f))}{
10             fr = new FileReader(f);
11             br = new BufferedReader(fr);
12             while((word=br.readLine())!=null){
13                 System.out.println("Text file : \n\""+word+"\"");
14                 int count=0;
15                 while(sc.hasNext()){
16                     sc.next();
17                     count++;
18                 }
19                 System.out.println("these file has " + count + " words");
20             }
21         }
22         catch(IOException e){
23             System.out.println(e);
24         }
25     }
26 }
```

Console

```
javac "Post5.java"
Process started >>>
<<< Process finished. (Exit code 0)
java "Post6"
Process started >>>
Text file :
"ant head man steel ant man work by daylight"
these file has 9 words
<<< Process finished. (Exit code 0)
===== READY =====
```

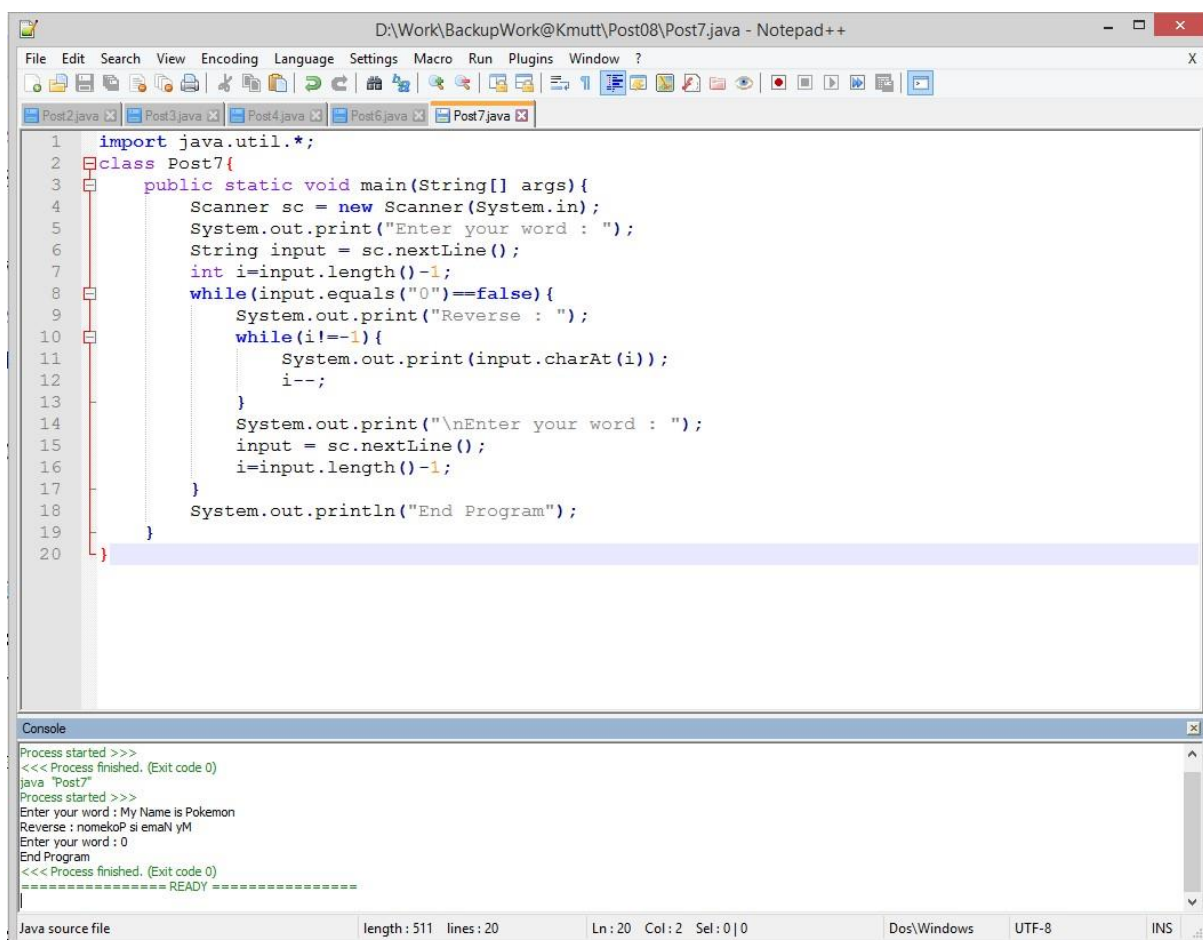
Java source file length: 636 lines: 26 Ln: 1 Col: 1 Sel: 0|0 Dos\Windows UTF-8 INS

7. ให้หาโจทย์เพิ่มเติมเกี่ยวกับ คำสั่งทำซ้ำในภาษา Java ก็ช้อกก็ได้ พร้อมเขียน code และอธิบาย

Write a program to make user input a random String then a program should return that String start from the back.(By not using String method)

Input : Enter your word: Hello World

Output: dlroW olleH



The screenshot shows a Notepad++ window with the title "D:\Work\BackupWork@Kmutt\Post08\Post7.java - Notepad++". The code is as follows:

```
1 import java.util.*;
2 class Post7{
3     public static void main(String[] args){
4         Scanner sc = new Scanner(System.in);
5         System.out.print("Enter your word : ");
6         String input = sc.nextLine();
7         int i=input.length()-1;
8         while(input.equals("")==false){
9             System.out.print("Reverse : ");
10            while(i!=-1){
11                System.out.print(input.charAt(i));
12                i--;
13            }
14            System.out.print("\nEnter your word : ");
15            input = sc.nextLine();
16            i=input.length()-1;
17        }
18        System.out.println("End Program");
19    }
20 }
```

The console output shows the program running and the user inputting "My Name is Pokemon". The output is "Reverse : nomekoP si emaN yM". The user then inputs "0", and the program ends with "End Program".

Process started >>>
<<< Process finished. (Exit code 0)
java "Post7"
Process started >>>
Enter your word : My Name is Pokemon
Reverse : nomekoP si emaN yM
Enter your word : 0
End Program
<<< Process finished. (Exit code 0)
===== READY =====

Java source file length : 511 lines : 20 Ln : 20 Col : 2 Sel : 0 | 0 Dos\Windows UTF-8 INS

Description : รับประโยคและกลับตัวอักษร เมื่อใส่ 0 จะจบโปรแกรม

โดยใช้ charAt ในการกำหนดตำแหน่งของตัวอักษร และลดค่าไปเรื่อยๆเพื่อแสดงตัวก่อนหน้าของตัวอักษร