

```
week2d.java  week2b.java  week2c.java  week2ajava X  ▶ 87 ▶ □ ...
week2a.java > week2a
1  import java.util.Scanner;
2
3  // import jdk.javadoc.internal.doclets.formats.html.SourceToHTMLConverter;
4
5  class week2a {
6      Run | Debug
7      public static void main(String args[]){
8          Scanner sc = new Scanner(System.in);
9          System.out.println("Enter a number-");
10         int n = sc.nextInt();
11
12         int num = 1;
13         for (int i = 0; i < n; i++){
14             for (int j = 0; j <= i; j++){
15                 System.out.print(num + " ");
16                 ++num;
17             }
18             System.out.println();
19         }
20     }
21 }
22
```

```
PS E:\jdk8\bin\ooj lab> cd 'e:\jdk8\bin\ooj lab'; & 'c:\Users\niranjan.savanur\.vscode\extensions\vscjava.vscode-java-debug-0.28.0\scripts\launcher.bat' 'E:\javasdk\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\niranjan.savanur\AppData\Roaming\Code\User\workspaceStorage\442f84ca5e6ca54ee8b26e8482c08a5d\redhat.java\jdt_ws\ooj lab_f1cd0e01\bin\'
'week2a'
```

Enter a number-

```
7
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21
22 23 24 25 26 27 28
```

```
PS E:\jdk8\bin\ooj lab> █
```

```
week2d.java  week2b.java x  week2c.java  week2a.java  Run | Debug  ...
1  import java.util.Scanner;
2  import java.lang.Math;
3  class week2b {
4      public static void main(String args[]){
5          final int SUB = 6;
6          float[] cieMark = new float[SUB];
7          float[] seeMark = new float[SUB];
8          float[] totMark = new float[SUB];
9          float cie, see;
10         int i, j, k;
11         Scanner sc = new Scanner(System.in);
12         System.out.println("Enter cie marks out of 50-\n");
13         for ( i = 0; i<SUB; i++){
14             System.out.print("sub"+(i+1)+"\n");
15
16             cie = sc.nextFloat();
17             if (cie > 50) {
18                 System.out.println("enter marks for 50-\n");
19                 i -= 1;
20             }
21             cieMark[i] = Math.round(cie);
22         }
23         System.out.println("Enter see marks out of 100-\n");
24         for( j = 0; j< SUB; j++){
25             System.out.print("sub"+(j+1)+"\n");
26
27             see = sc.nextFloat();
28             if (see > 100){
29                 System.out.println("enter marks for 100-\n");
30                 j -= 1;
31             }
32             else {
```

```
week2d.java  week2b.java X  week2c.java  week2ajava
week2b.java > week2b
29         System.out.println("Enter marks TOP-100-\\n");
30         i -= 1;
31     }
32     else {
33         seeMark[j] = Math.round(see/2);
34     }
35 }
36 for (k = 0; k < SUB; k++) {
37     totMark[k] = cieMark[k] + seeMark[k];
38     System.out.println("for subject " + (k+1) + " grade is:\\n");
39     if (totMark[k] >= 90) {
40         System.out.println("S\\n");
41     } else if (totMark[k] >= 80) {
42         System.out.println("A\\n");
43     } else if (totMark[k] >= 70) {
44         System.out.println("B\\n");
45     } else if (totMark[k] >= 60) {
46         System.out.println("C\\n");
47     } else if (totMark[k] >= 50) {
48         System.out.println("D\\n");
49     } else if (totMark[k] >= 40) {
50         System.out.println("E\\n");
51     } else {
52         System.out.println("F\\n");
53     }
54 }
55 }
56
57
58
59 }
60 }
```

TERMINAL PROBLEMS 62 OUTPUT DEBUG CONSOLE

2: Java Process Console



```
PS E:\jdk8\bin\ooj lab> cd 'e:\jdk8\bin\ooj lab'; & 'c:\Users\niranjan.savanur\.vscode\extensions\vscjava.vscode-java-debug-0.28.0\script
s\launcher.bat' 'E:\javadk\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-Dfile.encoding=UTF-8' '-cp' 'C:\U
sers\niranjan.savanur\AppData\Roaming\Code\User\workspaceStorage\442f84ca5e6ca54ee8b26e8482c08a5d\redhat.java\jdt_ws\ooj_lab_f1cd0e01\bin'
'week2b'
```

Enter cie marks out of 50-

```
sub1
45
sub2
34
sub3
56
enter marks for 50-
```

```
sub3
49
sub4
50
sub5
28
sub6
39
Enter see marks out of 100-
```

```
sub1
89
sub2
45
sub3
79
sub4
90
sub5
10
sub6
58
for subject 1 grade is:
```

TERMINAL PROBLEMS 62 OUTPUT DEBUG CONSOLE

2: Java Process Console



```
sub2
45
sub3
79
sub4
90
sub5
10
sub6
58
for subject 1 grade is:
S
for subject 2 grade is:
B
for subject 3 grade is:
A
for subject 4 grade is:
S
for subject 5 grade is:
F
for subject 6 grade is:
C
PS E:\jdk8\bin\ooj lab> 
```

week2c.java > week2c > main(String[])

```
1  import java.util.Scanner;
2  public class week2c {
    Run | Debug
3  public static void main(String args[]){
4      int a, b, num1, num2, i, j;
5      Scanner sc = new Scanner(System.in);
6      System.out.println("Enter two nos:");
7      num1 = sc.nextInt();
8      num2 = sc.nextInt();
9      if(num1>num2){
10         a = num2;
11         b = num1;
12     }
13     else{
14         a = num1;
15         b = num2;
16     }
17     if(b < 2){
18         System.out.println("there are no prime nos in this range.");
19         System.exit(0);
20     }
21     System.out.println("prime nos in the range are:");
22     for (i = a; i <= b; i++){
23         int flag = 0;
24         for(j = 2; j <= i/2; j++){
25             if (i % j == 0){
26                 flag = 1;
27                 break;
28             }
29         }
30         if (flag == 0 && i != 1 && i != 0){
31             System.out.print(i);
32             System.out.println();
33         }
34     }
35 }
36
37
```

TERMINAL PROBLEMS 35 OUTPUT DEBUG CONSOLE

2: Java Process Console



```
PS E:\jdk8\bin\ooj lab> cd 'e:\jdk8\bin\ooj lab'; & 'c:\Users\niranjan.savanur\.vscode\extensions\vscjava.vscode-java-debug-0.28.0\scripts\launcher.bat' 'E:\javadk\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\niranjan.savanur\AppData\Roaming\Code\User\workspaceStorage\442f84ca5e6ca54ee8b26e8482c08a5d\redhat.java\jdt_ws\ooj lab_f1cd0e01\bin\'
'week2c'
```

Enter two nos:

0

45

prime nos in the range are:

2

3

5

7

11

13

17

19

23

29

31

37

41

43

PS E:\jdk8\bin\ooj lab>


```
week2d.java X week2b.java week2c.java week2ajava
week2d.java > week2d > main(String[])
1 import java.util.Scanner;
2 import java.lang.Math;
3 public class week2d {
    Run | Debug
4     public static void main(String args[]){
5         final double pi = 3.14;
6         double r, h;
7         int choice;
8         double area, volume;
9         System.out.println("Enter shape you want\n");
10        Scanner sc = new Scanner(System.in);
11        do
12        {
13            System.out.println("menu 1:Cylinder 2:Cone 3:Sphere 4:Exit\n");
14            choice = sc.nextInt();
15            switch (choice)
16            {
17                case 1:
18                    System.out.println("Enter radius:\n");
19                    r = sc.nextDouble();
20                    System.out.println("Enter height:\n");
21                    h = sc.nextDouble();
22                    area = (2 * pi * r * h) + (2 * pi * (Math.pow(r, 2)));
23                    volume = pi * (Math.pow(r, 2)) * h;
24                    System.out.println("Area:" + area + " Volume:" + volume + "\n");
25                    break;
26                case 2:
27                    System.out.println("Enter radius:\n");
28                    r = sc.nextDouble();
29                    System.out.println("Enter height:\n");
30                    h = sc.nextDouble();
31                    area = pi * r * (r + Math.sqrt(Math.pow(h, 2) + Math.pow(r, 2)));
32                    volume = pi * Math.pow(r, 2) * h / 3.0;
```

```
week2d.java X week2b.java week2c.java week2a.java
week2d.java > week2d > main(String[])
22     area = (2 * pi * r * n) + (2 * pi * (Math.pow(r, 2)));
23     volume = pi * (Math.pow(r, 2)) * h;
24     System.out.println("Area:" + area + " Volume:" + volume + "\n");
25     break;
26 case 2:
27     System.out.println("Enter radius:\n");
28     r = sc.nextDouble();
29     System.out.println("Enter height:\n");
30     h = sc.nextDouble();
31     area = pi * r * (r + Math.sqrt(Math.pow(h, 2) + Math.pow(r, 2)));
32     volume = pi * Math.pow(r, 2) * h / 3.0;
33     System.out.println("Area:" + area + " Volume:" + volume + "\n");
34     break;
35 case 3:
36     System.out.println("Enter radius:\n");
37     r = sc.nextDouble();
38     area = 4 * pi * Math.pow(r, 2);
39     volume = (4 / 3.0) * (pi * (Math.pow(r, 3)));
40     System.out.println("Area:" + area + " Volume:" + volume + "\n");
41     break;
42 case 4:
43     System.out.println("Exit\n");
44     sc.close();
45     break;
46 default:
47     System.out.println("Enter a no. ranging from 1 to 4\n");
48 }
49 } while (choice != 4);
50 }
51 }
52 }
53 }
```

2: Java Process Consol

Enter shape you want:

```
1
Enter radius:
```

4
Area:131.88 Volume:113.04

```
2
Enter radius:
```

4
Area:75.36 Volume:37.68

```
3
Enter radius:
```

```
3
Area:113.04 Volume:113.03999999999999
```

4
Exit