CHAPTER – 1(EXECRCISE)

1.Sharepn your pencil

Given the output:

% java DooBee DooBeeDooBeeDo

Fill in the missing code:

```
public class DooBee {
public static void main(String[] args) {
int x = 1;
while (x < 3) {
System.out.print("Doo");
System.out.print("Bee");
x = x + 1;
}
if (x == 3) {
System.out.print("Do");
} } }
```

2.Code Magnets (Page 20)

A working Java program is all scrambled up on the fridge. Can you rearrange the code snippets to make a working Java program that produces the output listed below? Some of the curly braces fell on the floor and they were too small to pick up, so feel free to add as many of those as you need!

Ans

```
class Shuffle1 {
public static void main(String [] args) {
int x = 3;
while (x > 0) {
if (x > 2) {
System.out.print("a");
}
x = x - 1;
System.out.print("-");
if (x == 2) {
System.out.print("b c");
}
if (x == 1) {
System.out.print("d");
 x = x - 1;
}
}
}
}
```

3. BE the Compiler

Each of the Java files on this page represents a complete source file. Your job is to play compiler and determine whether each of these files will compile. If they won't compile, how would you fix them?

(**A**)

```
class Exercise1a {
public static void main(String[] args) {
int x = 1;
while (x < 10) {
x=x+2;
if (x > 3) {
System.out.println("big x");
} } } }
```

(**B**)

```
class Exercise1b {
public static void main(String [] args) {
int x = 5;
while ( x > 1 ) {
x = x - 1;
if ( x < 3) {
System.out.println("small x");
} } } }
```

(**C**)

```
class Exercise1c {
public static void main(String[] args) {
int x = 5;
while (x > 1) {
x = x - 1;
if (x < 3) {
System.out.println("small x");
} } }}
```

4. JavaCross

Let's give your right brain something to do. It's your standard crossword, but almost all of the solution words are from Chapter 1. Just to keep you awake, we also threw in a few (non-Java) words from the high-tech world.

Across

4. Command line invoker -
6. Back again? - **LOOP**
8. Can't go both ways
9. Acronym for your laptop's power -
12. Number variable type - **INT**

13. Acronym for a chip - **IC**
14. Say something – **System.out**
18. Quite a crew of characters - **String**
19. Announce a new class or method -
21. What's a prompt good for?

Down

1. Not an integer (or _____ your boat) - **FLOAT**
2. Come back empty-handed
3. Open house
5. 'Things' holders - **ARRAY**
7. Until attitudes improve
10. Source code consumer
11. Can't pin it down
13. Department for programmers and operations
15. Shocking modifier
16. Just gotta have one - **MAIN**
17. How to get things done
20. Bytecode consumer

5. Mixed Messages

A short Java program is listed below. One block of the program is missing. Your challenge is to match the candidate block of code (on the left) with the output that you'd see if the block were inserted. Not all the lines of output will be used, and some of the lines of output might be used more than once. Draw lines connecting the candidate blocks of code with their matching command-line output.

i) y = x – y -> **00 11 21 32 42**
ii) y = y + x; -> **00 11 23 36 410**
iii) y = y + 2; if(y > 4) { y = y - 1; } -> **02 14 25 36 47**
iv) x = x + 1; y = y + x; -> **11 34 59**
v) if (y < 5) { x = x + 1; if (y < 3) { x = x - 1; } } y = y + 2; -> **02 14 36 48**

6.Pool Puzzle

Your job is to take code snippets from the pool and place them into the blank lines in the code. You may not use the same snippet more than once, and you won't need to use all the snippets. Your goal is to make a class that will compile and run and produce the output listed. Don't be fooled—this one's harder than it looks.

```
class PoolPuzzleOne {
public static void main(String [] args) {
int x = 0;
while ( _____ ) {
System.out.print("a");_____
```

```
if ( x < 1 ) {
System.out.print(" ");_____________________________
}
System.out.print("n");_____________________________
if ( x > 1 _____________ ) {
_System.out.print(" oyster");_____________________________ _x = x + 2;_____________
}
if ( x == 1 ) {
System.out.print("noys");_____________________________
}
if ( _x < 1 _____________ ) {
System.out.print("oise");_____________________________
}
System.out.println();
x = x + 1;_______________
} }
```