

Worksheet

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Name:

Roll No: Class: Section:

Date:

NESTED LOOP

Chapter-9

1. State whether the following statement is true or false.

- (a) The loop control variable should be unique for both outer and inner loops.
- (b) The continue statement is used for exiting the loop.
- (c) Do-while loop provided by java cannot be used as a nested loop.
- (d) A loop outside another loop is called a nested loop.
- (e) Nested loop contains a single loop.
- (f) When a break statement is applied, it terminates the loop.
- (g) In a nested loop, break and continue can be used simultaneously.
- (h) The outer loop follows the next iteration when iterations of the inner loop are over.

2. Short answer type questions.

- (a) What is the final value of ctr when the process given below executes?

```
int ctr=0;
for(int i=1;i<=5;i++)
    for(int j=1;j<=5;j+=2)
        ++ctr;
```

- (b) What will be the output of the following code

```
int i,k=3;
while(k<1)
{
    for(i=1;i<=4;i++)
        {System.out.print(i);}
    System.out.println(k--);
}
```

- (c) What do you mean by an Armstrong number of a 3-digit number?
- (d) Write the syntax of a nested loop?
- (e) Give two differences between 'Break' and 'Continue'.