**Theory:**

1. What is Java?
2. Few features/buzz words of Java
3. Why do we call call as platform independent?
4. What happens at compile time?
5. What happens at run time?
6. How to compile and run a java program?
7. What is JVM?
8. What is JRE?
9. What is JDK?
10. What are different primitive types in Java?
11. Can you give some examples of valid variable names in Java?
12. How do you comment out code in Java?
13. Why do we need Git?
14. Command to add & commit files for tracking ?
15. How can you move to a new branch?

**Code Snippets**

1. Write a simple java program
2. Output of following  
   class A{  
   public static void main(String[] args){  
   int a2 = 10;

System.out.println(a2);   
} }

1. Output of following  
   class A{  
   public static void main(String[] args){  
   int 2names = 10;

System.out.println(2names);

} }

1. Output of following  
   class A{  
   public static void main(String[] args){  
   int a = 10;  
   int b=20;

System.out.println(a++);

System.out.println(b++);

System.out.println(a);

System.out.println(b);

} }

1. O/p of following:  
   class A{  
   public static void main(String[] args){  
   int a = 10;  
   int b=20;  
   a += 7;

b -= 3;

System.out.println(a);

System.out.println(b);  
} }

1. O/p of following:  
   class A{  
   public static void main(String[] args){  
   int a = 10;  
   int b=20;  
   System.out.println(a&b);

System.out.println(a|b);  
} }

1. O/p of following:  
   class A{  
   public static void main(String[] args){  
   int a = 10;  
   int b=20;  
   System.out.println(a>>1);

System.out.println(b<<2);

}}

1. O/p of following:  
   class A{  
   public static void main(String[] args){  
   int a = 10;  
   int b=20;  
   int c = a < b ? a > 8 ? 9 : 4 : 5;

System.out.println(c);  
}}

1. O/p of : System.out.println(6 + 4 \* 5 + 2);
2. O/p of : System.out.println( (8 + 1)\* 4 + 5 \* 3);
3. Simple program to check if number is even or odd. (Use if else)
4. Simple program to check if student grade (use swtich). Grade to be calculated as ,
   1. If marks = 90, then grade ‘A’
   2. If marks = 80, then grade ‘B’
   3. If marks = 70, then grade ‘C’
   4. If marks = 60, then grade ‘D’
   5. If marks = 50, then grade ‘E’
   6. For any other, print “invalid grade”
5. Program to calculate factorial of a number