**Round-1 Written test**

1. **What will be output of following program**

**public** **class** Test {

**public** **static** **void** main(String[] args) {

**int** x =9;

Boolean flag = **false**;

**if**(x<100 && x==10)

System.*out*.println(x);

System.*out*.println (x++);

**if**(x<10 && flag)

System.*out*.println (x);

}

}

1. **What will be output of this program**

**public** **class** Test {

**public** **static** **void** main(String[] args) {

**int** X=10;

String s = (X<1000)? "Small" :(X<100)? "Greater": "middle";

System.*out*.println (s);

}

}

1. **What will be output of this program**

**public** **class** Test {

**public** **static** **void** main(String[] args) {

**try** {

System.*out*.println("Divided"+6/0);

} **finally** {

System.*out*.println("Finally Block");

}

}

}

1. **What will be output of this program**

**import** java.util.ArrayList;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

ArrayList al = **new** ArrayList ();

al.add ("IGATE");

al.add ("IGATEA");

al.add (1,"IGATEBB");

System.*out*.println (al);

}

}

1. **Which keyword use to prevent subclass creation**

* abstract
* finally
* super
* final

1. **Which datatype will you use to storing interest rate**

* bigDecimal
* long
* BigInt
* Float

1. **Which is the incorrect statement or throw exception, tick all if applicable**

* **int** a = Integer.*parseInt*("123.321");
* **int** b = Integer.*parseInt*("123.321f");
* **int** c = Integer.*parseInt*(123.321f);
* **int** d = Integer.*parseInt*(123.1);

1. **Display an array with all possible combinations of the strings from the given string array of four** elements [A, Ah, Aha, Aaha].

Required Output: [AA, AAh, AAha, AAaha,Aha,AhAh] distinct only.

**9-.Write the logic for reversing an array.**

**Below are further round details faced by Rajnish K Tiwari:**

**Round-2**

* Why we call thread. Start (), not thread.run (), what will happen and How it is implemented?
* Wild card, upper bound, generics
* Criteria to decide different collection
* Abstract factory pattern
* What is Enum and why it is used?

**Round-3**

* generics
* Implement your payment gateway, what are design pattern will you use, please also tell Composition, aggregation relation between classes.
* There is a 'CharacterInputStream' object in java library.It has read method which is printing all the characters read from a file.How to get only Upper case letters.Will you modify to the existing read method in it.
* What is strategic design pattern?
* Unit Testing and BDD , How to mock static object
* SOAP Web services implementation

**Round-4**

* Overloading, both are overloaded or not?

**void** add(List<Exception> a){ }

**void** add(List<String> a){}

* Different design pattern
* Executor Framework, How to identify whether all jobs has done?
* Hibernate Many to Many mapping annotation
* Hibernate Projection and interceptor
* Security in web services and different authentication technique (Basic, Digest, NTLM )

**Round-5**

* Managerial round, Project , role related question

**Below are further round details faced by Taruna K Mohanty:**

**Round 2:**

Explanation of the programs which was on written test.

Write a snippet of code for singleton design pattern?

New java features, what is generics, annotation.

How synchronized used in collection API

Write a piece of code to retrive collection in java.For Hash Map and Hashtable.

Why you used Hibernate in your application? Write what all configuration and java class involved in Hibernate. How mappling happend in hibernate

What is cursor and trigger

What all you worked on backend activities ..like PL/SQL activities.

**Round 3:**

Write a program to create and start a thread?

Why we need two method Start and Run in thread?

Write a program sort Employee record? how to use hash code and equals method.

What all design patterns you used. What is factory design pattern. Write a sample to use Factory pattern.

Hashmap its internal implementation

**Round 4:**

Need to have Reconciliation report:

There is two system of data, one is CSV and other is database record of millions data. I need the reconciliation report (records which does not match in other system)

Which design pattern we need to use? Draw Class Diagram, Sequence diagram and try to write the core logic which differentiate the two sets of data?

What all data structure you need to use

**Round 5:**

Related to projects. Roles and responsibility. Which technology i have worked with?

**Round 6:**

Q1 : Generics is compile time or runtime behaviour?if it is compile time behavior how JVM differentiates it in runtime? How .class file looks likes for overloading function

public void method1(List<Car>)

public void method1(List<Bus>)

Whether this overloading fine or any error?

Q2:What is use of Dependency Injection? If I need to change one of my attribute of a class how to achieve that? Intention is we should not change our java code.

Which design we should use for this?

Q3: What happens to static variables of a class when we do serialization?

Q4:Why we use JSON ?what is the purpose of it? How it is different from XML?

**Below are further round details faced by Sankar Theerthagiri:**

**Round 2:**

Explain the current project functional/Technical flow?

Explain Singleton design pattern? Write the code?

Explain Decorator design pattern?

Explain Performance tuning with any profiler tool?

What is Multithread and deadlock?

What is the use of indexing?

**Below are further round details faced by Sai Yoganand:**

**Round 2:**

1.What are the different collections you have used and in which are all differnt cases List,Set and Map?

2.How to prevent race condition in HashMap?

3.What is the datastructure of HashMap?

4.What is hash code and hash value of a bucket?

5.What is static factory pattern and write its implementation?

6.What is Enum and why it is used?

7.Write the logic to retirieve elements from HashMap?

8.How to get non duplicate rows form database table.

**Round 3:**

1.Difference between REST and SOAP.

2.Scenario quesion:

There is a 'CharacterInputStream' object in java library.It has read method which is printing all the characters read from a file.How to get only Upper case letters.Will you modify to the existing read method in it.

What is decorator pattern.

3.There is a person object hierarchy being P as the grand parent and A,B as the parent classes.X and Y are the childrens of A.

P P1

| |

A B

/ \ / \

/ \ / \

X Y Z A

Can we get child objects by using parent reference?

Get list of all the objects by using subclass refence as input?

4.Why multiple inheritance is not supported in java and how it is supported in C and c++ languages.

5.Explain MVC and what is 'C' stands for.

**Round 4:**

1.Explain about yourself and yourlatest project.

2.Scenario question:

Through a shopping cart website a person ordered for 20 products of different category.Then based on this previous history of order how to show top three categories of his interest.

3.How to implement telephionic directory for a new connection.

4.How to display linklist data.

**Below are further round details faced by Vinay Duddu:**

**Round 2:**

1. What is overriding?
2. Is it possible to override methods if we change the return type of methods?
3. How to create singleton class?
4. How will you make your singleton class as threadsafe?
5. How will you create relationship between 2 tables?
6. What will happen if you did not override hashcode and equals method?
7. Why you are changing to Java?
8. Do you know Spring framework?
9. How to join tables?
10. How will you override equals method for your class(Employee)?

**Below are further round details faced by Gangadhishwar Akkimaradi:**

**Round 2:**

1. Self-introduction
2. Technical stacks with ratings
3. Explanation answers of the written test.
4. Financial domain : Explain the projects what you have worked on.
5. Design patterns –

* What are the design patterns you have worked on?
* Explain the different ways to implement singleton pattern and how are you ensure memory management w.r.t. one object as per design.
* Can you please write piece of code for : Factory, Observer and Strategy patterns.

1. Have you worked on Multi-Threading?

* Different scenario based questions on multi-threading and applications.

1. Two questions on Web services :

* Difference between SOAP and REST services and how to choose appropriate one for implementations.

1. How do you configure Hibernate? How the transactions are built?
2. Have you worked on PL/SQL activities?

**Below are further round details faced by Mohamed Shiraz:**

**Round 2:**

1. Introduce about yourself?
2. What is the difference between interface and abstract class?
3. Write a program to print Fibonacci series upto N numbers.
4. Write a program to reverse a String without using reverse() method.
5. What is Junit? Write a Junit test case for a method which returns String in reversed order.
6. A file contains different repeated numbers. U need to transfer these numbers to another file which should not contain any duplicate values and the numbers should be in sorted order. What is your approach to solve this? Write the algorithm.

**Round 3:**

1. Write a junit test case to a method which returns array in reversed order.
2. What do u mean by reference in java?
3. How will u compare two arrays or lists in java?
4. Sql: Table consists of two columns. Column 1 contains player name and column two contains Team name.

* Write a sql query to display the player names who are playing in more than one team.

1. What is index? How do you generate the indexes in database.

**Below are further round details faced by Karthick Santharam:**

**Round 2:**

1. Self-introduction
2. Technical stuff rating
3. Explanation answers of the written test.
4. New features of Java 7
5. Write a program for trading using Big Decimal
6. Usage of new features in Real time scenario
7. Why Java is platform independent and how it differs from C & C++
8. What is permutations and combinations , write a program for that
9. How many types memory in java (Stack & heap storage explanations he asked)
10. String and string buffer difference
11. Spring framework basics and modules which I have worked was aksed?
12. Database basics questions

**Below are further round details faced by Mahenur Shaik:**

1. Asked about project, on which module I worked and Some questions on project.
2. Find the character position in a given string ex:Bangalore in this string what is the ‘O ‘POSITION.
3. What datatypes you used for the columns in a table.(In my project).
4. How can you compare two strings in java.
5. Question about .equals() method.