***Core Java***

Encapsulation vs abstraction

four pillar of oops

overloading vs overriding

wait vs sleep

gc vs Finalize

synchronization

multi threading

collection Hashmap, tree map, hashtable

exception handling

throw vs throws

exception handling with overriding

Design pattern

***SPRING :-***

Basic Core Spring

Auto wiring

Bean factory and Application context

Transaction Management in Spring

MVC flow of Spring

***Hibernate:-***

Simple Hibernate Program

First Level Cache vs Second Level Cache

Get vs Load

save vs merge vs persist

diff. state of an object

1) Tell me about yourself

2) What all java technologies you used in your project?

3) Explain your project architecture?

Core java interview questions

4) What is serialization?

5) What is Runtimeexception?

6) How to create user defined exception in java?

7) How to create threads in java?

8) Difference between creating thread by extending thread class and by implementing Runnable interface?

9) Explain states of thread life cycle?

10) How to terminate a thread or how to make a thread to come in to dead state?

11) Explain yield() method in java?

12) Explain sleep() method in java?

13) Difference between yield() and sleep() in java?

14) Explain wait() method in java?

15) Difference between overloading and overriding?

16) Difference between interface and abstract class?

17) When do we use overloading in java?

18) When do we use overriding in java?

19) Explain generics in java?

20) Difference types of collections you used in your project?

21) Explain difference between List and set ?

22) What is String tokenizer?

23) Difference between String tokenizer and String split() in java?

24) Write java code to reverse String “I am taking java interview”.You should get output as “interview java taking am I “.

25) What is autoboxing java ?

26) What are var-args?

27) Explain with example for each loop in java

Spring :

28) Explain different spring bean scopes?

29) What is default scope for spring bean ?

30) Explain different annotations used in Spring?

31) Which version of spring you used in your project?

32) Explain features of spring 2.5

Hibernate :

33) Explain how to get connection in hibernate and how to interact with database?

34) Explain what is session factory in hibernate?

35) How to create session factory in hibernate?

36) Explain what is HQL?

37) Explain criteria interface in hibernate?

38) What is named query in hibernate?

SQL

39) Explain different types of joins in SQL?

40) Explain difference between primary key constraint and foreign key constraint ?

41) What is primary key?

42) What is foreign key?

43) What is checked constraint?

44) Different types of relationships?(One-One,One-Many,Many-One,Many-Many)

45) Explain Cascade on delete in sql?

46) Explain group by clause with example?

47) Write a query to retrieve department wise employee’s salary?

Junit:

48) How to write junit tests using Junit?

Deployment

How do you deploy code using Jenkins as I have mentioned Jenkins in resume they asked me this question.

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Tell me about your self ?

What will you do to your company?

What is transient variable ?

Write the code to initialize the inner class members.

How to retrieve the elements from the collection write the code

Static and instance vaiables and methods

Dynamic loading and static loading

What type of loading is class.forname() ?

Hibenate 3 best benfits

How to find the class name

I have 100 tables and fields ….i want to find one table name and fields names in hibenate

What is Syncronization ?

Most commonly used classes in collections

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CGI Interview Questions

Excerpts from Interview #1:

(A B.E. ECE student having 10th grade - 92.4%, 12th grade - 86%, Graduation score - 65.4%)

Technical Interview and HR

Explain steps involved in creating user defined exception?

State three differences between array list and vector list?

How would you market yourself.

What are the different types of collections in java?

What is the difference between ambitions and goals?

What separates you from the rest of the candidates?

What are your expectations from the society?

What is an IT industry?

Is Indian IT industry the best in the world?

Excerpts from Interview #2:

(PEC student having Xth score 90% XIIth score 84.6% and graduation score 82.4%)

Technical interview:

Describe your Final Year Project

Asked about entire OOP concept: objects, inheritance, polymorphism, abstraction.

Asked to write a program to find the lowest no. From an array

Asked to describe the ASP .NET Page Life Cycle

HR Interview:

Briefly describe about yourself.

What you know about CGI.

Any questions you want to ask.

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1) Tell me about your self ?

Ans : Just describe yourself with cool & confidence.

2) What you know about our company?

Ans : Remember , it’s a very crucial question. You must do one R&D before going to interview. You should know about their product, technical stuffs they are working, market value of the company ane other important stuffs.

3) What is transient variable ?

Ans : Transient variables are not serializable. It helps to avoid a variable to being serialization.

4) Write the code to initialize the inner class members.

Ans : Code here

public class InnerClassTest {

class innerTest{

private int age;

public void display(){

System.out.println("Age="+age);

}

}

/\*\*

\* @param args

\*/

public static void main(String[] args) {

InnerClassTest.innerTest innerObj=new InnerClassTest().new innerTest();

innerObj.age=20;

innerObj.display();

}

}

5) How to retrieve the elements from the collection write the code ?

Ans : Java provides certain interfaces by using that we can retrieve the elements from collection.Example – Iterator, ListIterator and Enumeration.

Example :- ArrayList data retrival

public class ArrayListRetrive {

/\*\*

\* @param args

\*/

public static void main(String[] args) {

ArrayList<String> arList=new ArrayList<String>();

arList.add("Java");

arList.add("is");

arList.add("Powerful!!!");

//Retrive elements from ArrayList using Iterator

Iterator iTer=arList.iterator();

while(iTer.hasNext()){

System.out.println(iTer.next());

}

}

}

6) What is static and instance variables and methods ?

Ans : Static variables are per class but the instance variables are per object. All object share a single copy of static variable. In case of static method , no need of object creation for calling static method. The static method can directly call by using class name. Instance method need object for calling.

7) What is dynamic loading and static loading of java class ?

Ans : Dynamic class loading is by Class.forName() , which loads the class dynamically. Also you can use reflection for dynamic class loading. But, the static class loading is working by using ‘new’ keyword.

8) What type of loading is class.forname() ?

Ans : Its dynamically locate and loads the class.

9) What is Hibenate 3 best benfits ?

Ans : There are many benefits of hibernate. But the most benefits are below :-

1. It reduces the developer effort to writing queries.

2. Its easy to use with relational object which maps with java class and database relation.

3. Query tuning is not required and it implements separates cache which is reason for better performance.

10) I have 100 tables and fields. I want to find one table name and column names. Write a quey .

Ans : I have used mySQL database for this below query.

select TABLE\_SCHEMA,TABLE\_NAME,COLUMN\_NAME from information\_schema.COLUMNS where TABLE\_NAME='EMPLOYEE';

11) How to define a field name in hibernate using annotation ?

Ans:- @Column (Its provided by java persistent API).

12) What is Synchronization ?

Ans:- Synchronization is a solution for concurrency issue. Java provide 'synchronized' keyword for implementing this.

13) The most commonly used classes in collectionsn ?

Ans : ArrayList, LinkedList, HashTable, HashMap and ConcurrentHashMap, etc.

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final