

Prorijo

Rajesh Gupta

1) ~~the~~ Javascript

2) Selecting multiple elements in <select> of html

3) various html tag

4) html validation

5) alert in javascript (when undefined)

6) function call in javascript

7) Validation using javascript.

8) OOPs concepts

    Encapsulation, abstraction

    Polymorphism

9) Overloading

Overriding

    final with inheritance [sealed]

10) sealed exception [unchecked exception  
with overriding].

11) try / catch (finally / throws, throw  
( continuing))

12) C++-not => delegate, event

( explanation )

( function pointer in C, C++ )

# PRORIGO → Atul Banwar.

## 1. Ajax code in java.

How to send the value (selected value) of dropdown box to server using ajax to display another dropdown with corresponding elements. (code).

## 2. Hibernate Flow

how mapping is done in hibernate.

## 3. project description, technology used.

## 4. flow of starts

## 5. What happens when a request comes for JSP page to server

## 6. How to create custom tags in JSP ?

## 7. Can I declare variable in scriptlet tag ? what is the disadvantage ?

## 8. How to create anchor in html ?

## 9. Difference between interface and abstract class ? when you should go for interface over abstract class ?

## 10. Difference string, stringbuilder, stringbuffer ?

1. Write a delegate for a function?
2. Write a delegate which will invoke multiple functions?
3. What is events?
4. What is the use of function?
5. Instead of raising a particular event, I can call a method when some event occur, then why events?

#### 6. Interface

I1

int add (int, int)

#### Interface

I2

int add (int, int)

3

```
class c1 : I1, I2
```

?

{ Implement both methods of interface I1 and I2 }

1

How you will do the same thing in Java.

7. Difference between .NET and Java, about Delegates
8. Write the whole code for event handling?

write a trigger for a particular event?

2. Difference between stored procedure and stored function?
3. Can I write dml's inside function body?
4. Can I commit inside function body?
5. Can I call function inside procedure followed by commit?
6. Different type of relationships with egs?
7. How to remove constraints from a table? probly you may face?
8. All joins, explanations?
9. natural join query
10. Difference between having and where.
11. Subqueries with eg & command?
12. Use of groupby, eg, command?



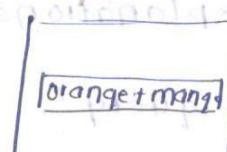
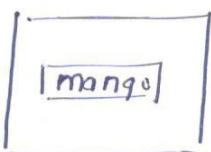
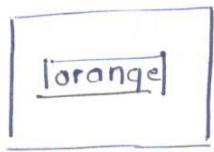
bus service to be started for regions having employee greater than 10.

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
|   |   |   |   |   |   |   |   |   |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

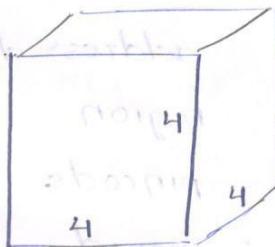
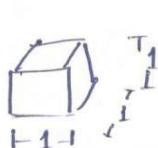
array of size 8 having 8 no. from 1 to 9. Find the missing no.?

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
|   |   |   |   |   |   |   |   |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

array of size 7 having 7 no. from 1 to 9. Find 2 missing no.?



3 bags, one got mango's, one got orange, one got orange + mango. the labels are shuffled. you can draw only one fruit from one bag (w/o looking inside bag). Determine which bag contain what?



→ how many cubes you need to create this cube?



If I will dip this cube inside water and take it out? How many small cube will remain dried.

## ① Stack memory vs Heap memory

① Kalpesh V Phadnis  
(Poosigo)

② strings = "abc"

String s1 = "xyz"

s1 = new String("lmn");

3 How many objects are created

void main()

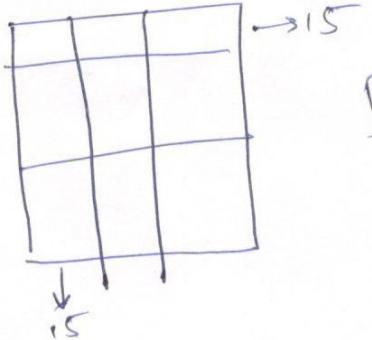
```
{ String s = new String("abc");
    SOP(s);
    function(s);
    SOP(s);
```

3 function (String s)

```
{ SOP(s);
    s = new String("lmn");
```

3

③



Fill this with 1-9 numbers  
such that addition of cols = 15  
rows = 15

④

Map m = {  
 a → 1  
 b → 2  
 c → 3  
 d → 4  
}

ArrayList li = {a, b};

remove the elements from m which are  
present in li ~~if(a)~~

⑤ Collection vs Collections.

⑥ Project - asked questions on various topics and related them with my project.

⑦ class A  
{  
(protected) fun () throws myexception

Class B extends A

( ) fun c) → [does not throw any exception]

↓  
what we can have here

⑧ class A

{ fun ()  
{ sop ("in a"); } }

Class B extends A

```
{ fun (.)  
{ sop ("in b"); };
```

3

main e)

{ A a = new B( ) }

a.fun();

3

⑨ main()

```
{ byte a = 120  
    byte b = 20  
    SOPC(a+b);
```

⑩ String a = "abc";  
~~String abc~~  
a + "xyz";  
a.concat("lmn");

Prorijo

Rajesh Gupta

- 1) ~~Ques~~ Javascript
- 2) Selecting multiple elements in <select> of html
- 3) various html tag
- 4) html validation
  - a) alert in javascript (when undefined)
- 5) function call in javascript — *(must)*
- 6) Validation using javascript.
- 7) OOPs concepts

    Encapsulation , abstraction

    Polymorphism

- 8) Overloading

    Overriding

        final with inheritance [sealed]

- 9) checked exception [unchecked exception with overriding].

- 10) try / catch / finally / throws / throw (contusing)

- 11) ~~Ques~~ delegate, event

    ( explanation )

    (function pointer in C, C++)

13) What is JSP

14) Servlet.

15) HTML to JSP

16) JSP to HTML

17) forward v/s redirection

18) doGet(), doPost(), service()

different (when all three are overridden)

19) Hibernate

why Hibernate

configuration files. 2 content of them

hibernate mapping file ] files

How to implement Hibernate:

what is HQL.

20) Struts :-

\* Explain the project of CDAC

\* what is Action Servlet,

struts-config.xml

validation.

- 5) what is container in c++?
  - 6) what is collection?
  - 7) what is list & vector?
  - 8) what is pointer & reference & diff. bet'n them.
  - 9) what is inheritance
  - 10) Types of inheritance, structure of multiple inheritance
- 
- If there are 8 balls & one is heavy amongst them, How will you identify / differentiate it in 2 steps?

Struts :-

\* Action in struts      \* Authorization, Authentication  
POJO  
POJI

\* Struts tags  
\* [JSTL, EL, OGNL]  
↳ A question

- Asp.net

- (1) Various control
- (2) Roles
- (3) Authorization, Authentication

## ALTAIR ENGINEERING

- What is inheritance? Explain the private, public & protected modes of inheritance.
- Explain the use of static keyword in C++.
- Differences between pointer & reference.

### Aptitude Question :

- 3 bulbs in 1 room & 3 switches in another room. Determine the switch for each bulb by going into the room only once.

PG:

- Tell me about yourself.
- Why you switched from Elex to IT?
- What is your dream job?
- How good are you in C++?
- Concepts of C++. Explain with examples.
- Difference b/w static & dynamic polymorphism.

- If 4 tablets are given, all are same, but 1 is expired. Expired tablet is heavier than others. Consider wt of normal  $\overset{\text{tablet}}{= 1 \text{ gm}}$ , expired = 2 gms. With a weighing scale determine which is the defective tablet.  
You must have minimum number of measurements.

(I was asked to determine by just one measurement)

NR:

- 1) Tell me about your self?
- 2) what is copy constructor
- 3) How to define it (Syntax of copy constructor)
- 4) why we pass reference as an argument during copy constructor

Joash

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

PRORIGO - FEB, 2013

ROUND 1 - Joash PEREIRA

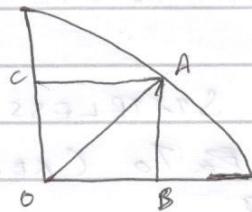
APTITUDE TEST & TECHNICAL APTI TEST.

Round 2

- 1) WRITE THE TEST CASES FOR A TIC-TAC-TOE GAME.  
CODE REQUIRED.
- 2) WRITE A PROGRAM & THE TEST CASES FOR SODUKU GAME.

Round 3 TECHNICAL INTERVIEW - I

- 1) What Is THE DIFFERENCE BETWEEN STATIC & CONSTANT VARIABLES?
- 2) What Do You MEAN BY POLYMORPHISM ? Explain LATE BINDING WITH EXAMPLES.
- 3) How WOULD You DECLARe CONSTANT VARIABLES IN JAVA?
- 4) How Do You MAKE A CLASS IMMUTABLE?
- 5) DIFFERENCE BETWEEN STRING & STRINGBUFFER?
- 6) GIVE AN EXAMPLE OF QUARTER CIRCLE.



QUARTER CIRCLE WITH  
radius OA (radius) = 10

WHAT IS THE LENGTH OF CB ? & WHY ?

- 7) WHAT ARE JOINS ? EXPLAIN DIFF. BETWEEN EQUI JOIN & OUTER JOIN ?
- 8) DESIGN YOUR OWN TABLES ? & WRITE A JOIN QUERY TO FIND OUT THE NO. OF STUDENTS WERE ABSENT ON A PARTICULAR DATE ?
- 9) BASED ON THE DESIGN OF THE TABLE ? WRITE A QUERY TO CALCULATE THE TOTAL NUMBER OF FEMALES IN A PARTICULAR CLASS ?

- 10) What Is JAVASCRIPT? What Is It USED FOR?
- 11) How To Do You DECLARE VARIABLES Of INTEGER & STRING In JAVASCRIPT?
- 12) How Do You CALL A JAVASCRIPT FUNCTION?
- 13) Do You Know HTML5? EXPLAIN SOME TAGS?
- 14) In Your WEBSITE Which TYPE Of CSS Would You PREFER? & WHY? (INLINE, INT/EXT)

### TECHNICAL INTERVIEW-II

- 1) DIFFERENCE BETWEEN PROCEDURES & FUNCTIONS In PL/SQL
- 2) How Would You Call A PROCEDURE /FUNCTION?
- 3) WHAT ARE TRIGGERS? EXPLAIN ITS TYPES?
- 4) DIFFERENCE BETWEEN PRIMARY & CANDIDATE KEYS?
- 5) WHAT ARE INDEXES? FOR WHAT WAS IT INTRODUCED?
- 6) WHAT ARE SURROGATE KEYS?
- 7) What Do You MEAN BY SEALED KEYWORD In C#? USE.
- 8) EXPLAIN THE USE OF IDISPOSABLE INTERFACE?
- 9) WHAT ARE DELEGATES? WRITE A CODE & EXPLAIN HOW IT WORKS?
- 10) What Do You MEAN BY STATELESS In ASP?
- 11) WRITE THE SYNTAX To CREATE SESSION & COOKIES In ASP.net?
- 12) EXPLAIN MVC FRAMEWORK? CAN You EXPLAIN WITH RESPECT To ASP.net PAGES?
- 13) DIFFERENCE BETWEEN GET & POST?
- 14) Do You Know jQUERY? What Is It USED FOR?
- 15) DIFFERENCE BETWEEN SERVER TRANSFER & RESPONSE REDIRECT
- 16) What Is ITEM TEMPLATE In ADO.net? EXPLAIN USE?
- 17) EXPLAIN YOUR PROJECT & ITS FLOW?
- 18) EXPLAIN STRUTS? What Are THE INTERCEPTORS?
- 19) What Do You MEAN By JPA? EXPLAIN THE ORM CONCEPT?

Prorijo

Rajesh Gupta

- 1) ~~Ques~~ Javascript
- 2) Selecting multiple elements in <select> of html
- 3) various html tag
- 4) html validation
- 5) add alert in javascript (when undefined)
- 6) function call in javascript
- 7) Validation using javascript. — ~~must~~
- 8) OOPs concepts  
    • Encapsulation      • abstraction  
    • Polymorphism  
    • Overloading  
    • Overriding  
    • final with inheritance [sealed]  
    • checked exception [unchecked exception]
- 9) try / catch (finally / throws) throw  
    • (continuing)
- 10) C++ . net => delegate, event  
    • (explanation)  
    • (function pointer in C, C++)

(13) What is JSP

(14) Servlet

(15) HTML to JSP

(16) JSP to HTML

(17) forward v/s redirection

(18) doGet(), doPost(), service()

Different (only <sup>all</sup> three are overridden)

(19) Hibernate

why Hibernate

configuration files.

Hibernate mapping file

content of these files

How to implement Hibernate:

What is HQL.

(20) Struts 2

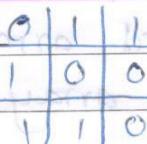
\* Explain the Project of CDAC

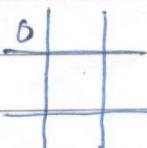
\* What is Action Servlet,

struts-config.xml

validation.

## Prigo

- ①  WAP with function haswinner() & getwinner(), if the game has winner, function should return true or false. and function getwinner() should return 0 or 1 depending upon the player who is won. Use appropriate data structures.

- ②  write a program to find out next possible move for players. player id can be 0 or 1. There will be function next() which will take player id (0 or 1) & will return x & y positions for the next move. Use appropriate data structure.

- ③ C++ :-

write a string class with copy constructor & destructor.

- ④ C++ :-

write a program which will show use of virtual destructor.

- ⑤ KAP having function search, which will accept integer array, offset & no. find the no in the array from offset position till the end of an array, if found then return offset. If not then search from index 0 till the offset if found then return offset else return -1.

Chandresh  
Page No.  
Date

Chandresh  
Page No.  
Date

- (6) KMAP Having 2 integer sorted array.  
Merge them into 3rd integer array while  
Sorting.

- Logical questions (Number of words in a sentence & their occurrences.)

pattern P  
PRO  
PRORIGO

- All pattern & series problem without loop
- Program to find the missing number from series.
- program to find sum of a given series
- Stack implementation
- command line argument
- Accept even odd condition using command line argument.  
i.e user-defined program should come to know that what type of check is to be performed.
- Difference between stack and heap
- what all goes into heap & in stack.
- overloading overriding, exception rules for overriding
- Exception, types, hierarchy & some random examples
- covariant type
- Generics, Collection
- why the wrapped instance is given in collection instead of primitive. i.e why `List<Integer>` & not `List<int>`
- Dot net - collections
- Difference in collection dotNet & java
-

13) What is JSP

14) Servlet.

15) HTML to JSP

16) JSP to HTML

17) forward v/s redirection

18) doGet(), doPost(), service()

different (when all three are overridden)

19) Hibernate

why Hibernate

configuration files. } content of these

hibernate mapping file } files

How to implement Hibernate:

what is HQL.

20) Struts :-

\* Explain the Project of CDAC

\* what is Action Servlet,

struts-config.xml

validation.

- 5) what is container in C++?
- 6) what is collection?
- 7) what is list & vector?
- 8) what is pointer & reference & diff b/w them.
- 9) what is inheritance
- 10) Types of inheritance, structure of multiple inheritance

- If there are 8 balls & one is heavy amongst them, How will you identify / differentiate it in 2 steps?

Struts :-

\* Action in struts      \* Authorization,  
POJO                         Authentication  
POJI                         \* Struts tags  
                               \* [JSTL, EL, OGNL]  
                               ↳ A question

- Asp.net

- ① Various control
- ② Roles
- ③ Authorization, Authentication

Company Name: Prorigo Software Pvt. Ltd.

Name: Sanket Patil

Date: 07/08/2014

1<sup>st</sup> Round:

Aptitude Test – 20 questions 25 minute

Technical Test- Topic wise Sections (C++ and JAVA, Web Technology, Database and Ms.net)

Around 30 question. (35 minutes)

( 1 mark for each right and  $\frac{1}{4}$  mark minus for each wrong)

2<sup>nd</sup> Round:

1<sup>st</sup> Interview: (focused on coreJavaand J2EE) [45 mins]

- Explain OOPs and POP
- What is polymorphism?
- Why there is need for polymorphism?
- Late binding, early binding.
- Real Life example for oops concepts.
- Why we require finally block, importance.
- In which case finally won't get executed?
- How exactly System.exit(0) works?
- If you are raising an exception explicitly do you required to import any package?
- Checked exception, unchecked exception and error? Write a code.
- Throw and throws?
- Where we write Destructor and how it works in java? (twisted qnt)
- How garbage collector works?
- Can you explicitly call finalize() method?
- Where is finalize method is declared()
- Why thread.... and thread synchronization?
- Object lock occurs when? When do object get unlocked?
- Can run method throws(declare) an exception? justify
- What is JDK, JRE and JVM?
- What do you mean by virtualization? What do you mean by Virtual Machine?
- Can I write code in java in order to create java Application?
- JDBC steps.
- What if accepturl returns falls, what happens? exception occurs?
- Why do we require to close the connection?
- Servlet? Servlet life cycle?
- Api for servlet?
- Write a servlet?
- Explain life cycle of servlet?
- Is compulsory to override all those methods?
- Use of httpserlvletrequest, httpserlvletresponse?

- When to override destroy?
- Service doget and dopost ..What is the difference ?
- Jsp? how jsp tags works internally?
- Which method from jsp cannot be overridden? Why?
- Difference between Web server and Application server?
- What is EJB?
- Which 9 services?
- MOM in EJB?
- What is MVC? What is the need? Explain how it works?

#### Few Personal Question

- Why IT?
- Strengths and weakness , etc

2<sup>nd</sup> Technical interview: (everything c, C++, java, c# dot net ,javascript, database ...confusing)  
[1 hr 15-20 mins]

- What is Hibernate?
- Why there is need for hibernate?
- Explain caching in hibernate?
- What does merge method do in hibernate?
- What is ORM?
- LINQ and Entity in Dot.net?
- How garbage collection differs from Java to dot net?
- Do we have dispose method in Java?
- Access specifiers in java and C# how they are different?
- Namespace and assembly?
- Difference between stored procedure and stored function?
- How to invoke stored procedure from C#?
- How to use stored function?
- Store procedure and store function difference? Which is better?
- What is cursor? Why it is use? Attributes of cursor?
- What is SQL cursor?
- Threading in C# and java?
- Write a code for both?
- Can we force Gc in Java? Why not?
- Scheduling methods for thread?

Write a code for find of the filename and extension form given path Eg ("C:\NewFolder\abc\abc.txt" ....o/p should be => abc.txt)

- Write the code with different approach in java and C#
- WAP for triple Fibonacci 1 1 1 3 5 9 17 26....
- Write a code to for printing 1 to 100 in words in c#.
- Singleton design pattern? Write in C++, java and C#?
- Does '&' works in c#?

- Which design patterns you know?
- Strings in Java and c#? Write the code which depicts the difference?
- What is value type and reference type?
- Can we create constant object? Where it will be created heap or stack?
- Can you relate setter –getter methods of java to set and get properties in c# ...can you give access modifiers to set and get properties?
- What are delegates and events? Write the code for both.
- Can we achieve same in java? How? Write a code for that?
- Tables were given ...From tables write a LINQ Query?
- What is JavaScript? Why it is use?
- Are there any data types in JavaScript?
- Write any JavaScript function.

Some Personnel Questions again.

3<sup>rd</sup> Round: (personnel question and abilities, qualities) [30-35 mins]

- What you like and dislike in today's process?
- What your friends and family think of you?
- I have a problem in dot net how will you solve it?
- List out your strengths and weaknesses?
- Why it is that java is your favorite?
- You have to build a bridge on a curved beach? How will you build it?
- [the discussion went for almost half an hour....at every point he was throwing a situation at me and he was checking my response, assumptions I made ..etc.etc]
- What do you know about augmented reality?
- Why Prorigo?

## Prorigo Interview Questions-avinash Kapse

- 1)oops concept
- 2)Database -UML Diagram, Procedure and Function
- 3)Core Java-
  - 1)hash code, tostring, equals methods syntax and contract.
  - 2)Abstract class and Interface
  - 3)Exception handling (how to write user define exception)
  - 4)multipthreading(synchronization, can we apply synchronization to static block, syntax of static block)
  - 5)E R diagram(he asked me to draw 1 to 1,1 to many with code also)
  - 6)Thread Local, Demon Thread
  - 7)servlet, JSP(how to call from one servlet to another servlet and JSP to servlet)
  - 8)RMI and RPC Difference
  - 9)Strut(how to do validation in struts)
  - 10)project-what is difference between your project and makemytrip.com
  - 11) Cohesion and coupling

- If 4 tablets are given, all are same but 1 is expired. Expired tablet is heavier than others. Consider wt of normal  $\stackrel{\text{tablet}}{=}$  1 gm, expired = 2 gms. With a weighing scale determine which is the defective tablet.  
You must have minimum number of measurements.

(I was asked to determine by just one measurement)

18

NR:

- 1) Tell me about your self?
- 2) What is copy constructor
- 3) How to define it (Syntax of copy constructor)
- 4) Why we pass reference as an argument during copy constructor

## ALTAIR ENGINEERING

- What is inheritance? Explain the private, public & protected modes of inheritance.
- Explain the use of static keyword in C++.
- Differences between pointer & reference.

### Aptitude Question :

- 3 bulbs in 1 room & 3 switches in another room. Determine the switch for each bulb by going into the room only once.

### PG:

- o Tell me about yourself.
- o Why you switched from Elex to IT?
- o What is your dream job?
- o How good are you in C++?
- o Concepts of C++. Explain with examples.
- o Difference b/w static & dynamic polymorphism.

## **Prorigo Software**

Founded in: 2008

Prorigo Software, established in the year 2008, is a technology company based out of India, focused on providing outsourced software product development and customized application development services. Their technology focus and significant experience in building robust, scalable and world class software products and applications helps them bring client's products to market faster and maintain them – be it a social networking website, a mobile application, a desktop product or a complete "n"-tiered enterprise product.

Prorigo has experts in software architecture, project/program management, along with technical experts in Microsoft, Enterprise Java technologies, test automation and mobile application development. Prorigo also provides professional services in customised application development, architecture and program management consultancy, enterprise integrations and data migration services. We have excellent expertise in various domains, including PLM, QLM, CRM, SCM, eCommerce, Networking, BI & Reporting, security solutions, Information Rights Management. The real strength of Prorigo is the employees!

### **Software Development:**

Pure Technology focus, where we provide high end consultancy to clients in :

- Architecting product / solution, Designing software
- Refactoring, performance enhancement, maintenance
- Quality Assurance, Automation
- Documentation

### **Specialties**

Outsourced Software Product Development, PLM Services, eCommerce Applications, Mobile Application development, Analytics and BI, CRM Services, SalesForce, Microsoft Dynamics

## Prorigo Question

Deep Mehta

Technical interview

- 1) How are you feeling today?
- 2) How was the Pre Placement talk?
- 3) Tell me about yourself.
- 4) Tell me about your project.
- 5) What was your role in your project.
- 6) Flow of project done part done by you
- 7) How you connected database to service.
- 8) What is Restful Service
- 9) Signature of Restful Service.
- 10) Tell me about Angular.
- 11) How you divided components in Angular
- 12) How you connected tables in database.
- 13) <sup>Print</sup> Write common words between two sentences.  
If the common words are appended with punctuation  
then how to get that words  
for eg. hello! → are logically same  
hello
- 14) Capacity of bag is given say  $M=10$ ; Stones weight  
And you can have at the maximum 3 stones in  
a bag but it should not be 1, 3, 5 kg stones.  
Given  $M=10$   
 $\text{arr}[ ] = \{1, 3, 5\}$   
Combination for example can be :-  
[1, 0]  
[2, 8] [4, 6]  
[2] [4] [6] [7] [8] [9]

Interviewed on 20/09/2018

Renuka chaudhari

Prorigo Software PVT.Ltd.

### Technical Interview

- 1) What is Spring?
- 2) What is MVC?
- 3) What is Reflection API?
- 4) What is role
- 5) Explain your role in project?
- 6) Explain your project?
- 7) What is Collection API
- 8) Difference between ArrayList, Set and hashmap.
- 9) Interface and realtime example.
- 10) If you have one ArrayList and one hashmap & and you have some same entries in that then how will you delete same entry?
- 11) Explain Abstract class.
- 12) What is Maven?
- 13) Explain about Ajax?
- 14) JavaScript.

### Coding Round

- 1) write a program to count the vowels and find factorial of that count.
- 2) Write a program to find common words into two sentences.

## HR Interview

## Princo Software

Ques. & Ans. for Princo Software

- 1) Tell me about yourself?
- 2) Why should I hire you?  
give me ~~per~~"PERFECT" reason for that.
- 3) What you have done in last 1 year?
- 4) Your long term goal.
- 5) Your short term goal.
- 6) Write a letter on any topic you want.

## Letter writing

b/w cover letter & letter of response  
difference b/w them

cover letter b/w employer & job  
letter of response b/w employer & employee