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| -> Spring Aup (Aspect - Oriented Programming)   |
| Spring App enables Aspect - Oriented Programming in Spring application. In App aspects enable the modularization of concerns such as transaction management, logging or security that cut accross courtiple types and object. |
| -> Spring Muc (Model-View-Controllex)   |
| A Spring Muc is a Jana Framework coshich is used to build coeb cipplications.  It implements all the loasic features of a come spring frame work like the Inversion of Control, Dependency Injection.                         |
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|----------------------|---------------------------|--|----------------|
| to Spring 1          | rapid work.               | Hon Develope                                   |                |
| 0                    | a a sicolina              | that you command Sp.                           |                |
| Spring               | Senvers                   | XML < bean)  - Configuration =  aconfiguration | Spain9<br>Boot |
| In Shows of Spains F | + Spring Book<br>ramework | and Embedd                                     | ed Senvers.    |
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| Qu. 4>        | CNHat is REST API?                               |
|---------------|--|
| $\rightarrow$ |  |
|               | . The team REST Steinds Con REpresentat          |
|               | -ional State Transfer. It is an architectura     |
|               | Style that defines a set of scyles in order to   |
|               | Create web services. In a client-server          |
|               | Communication, REST Suggests to Create of        |
|               | object of the data requested by the client       |
|               | and send the values of the object in seespon     |
|               | -se to the user.                                 |
|               |  |
|               | · For enample, if the user is requesting         |
|               | For a food detivery in Pune at a certain place   |
|               | and time, then you can create an object on       |
|               | Senver-Side.                                     |
|               |  |
|               | . 80, over here, you have an object and you      |
|               | one Sending the state of an object. This is why  |
|               | REST is known as Representational State Transfer |
|               | · The architectural 841e of REST helps in        |
|               | leveraging the lesser use of bandwigth of to     |
|               | make an application more suitable for the        |
|               | internet. It is often regarded as the            |
|               | "language of the internet" and is completely     |
|               | based on the resources.                          |
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| Q4.57 | CNhat is J80N?  |
|       | · Json Stands Rox Javascript Object Notation is a lightweight, text-based, language - Independent data exchange format that is easy for humans and machinel to nead and white.  · Json can represent two structured types: Objects and arrays.  Object - An object is an unoxdened collection of zero oxtmoxe |
|       | name/value painel.  |
|       | Array - An array is an ordered sequence of zero or more values. The values can be string, numbers,  |
|       | booleans, null, and there two Structured type.  |
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| (du-6) | Difference between           | JOBC and Hibernate                   |
|--------|------------------------------|--------------------------------------|
|        | 7000                         |                                      |
| 0      | JOBC -                       | Hiberinate                           |
|        | DOBC is a tech-              | Mibernate is a                       |
|        | -001034.                     | T-ramework.                          |
| 3      | JDBC work with               | Hibernate coaxics with               |
|        | rows with column.            |                                      |
|        | (RDBMS Approach)             | class and variable (oop Approach)    |
|        | Tricouch)                    | (GOP Approach)                       |
| 3      | JDBC does not                | H'ha anda hac buill                  |
|        | 12uilat-in Functions.        | Milbernate has built-in              |
|        | For penjouring               |                                      |
|        | CRUD opprations              | CRUD operations.                     |
|        | on daitabase.                |                                      |
|        |                              |                                      |
| (4)    | JDBC code is                 | Hilsexnate code is                   |
|        | database dependent           | database independent                 |
|        | Code.                        | code.                                |
|        |                              |                                      |
| (5)    | Penjonmance 01               | Pertonnance 01                       |
|        | Penjonnance of JOBC is 1000. | Performance of<br>Hibernate is fast. |
|        |                              | 1.027                                |
|        |                              |                                      |
|        |                              |                                      |
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| Qu:7> | Advantages of Hilseanate.   |
|       | (Object Oxiented Approach). 80, we don't<br>need to have SQL knowledge (RDBMS).   |
|       | D) Hibernate framework is open source under the LGIPL license and lightweight.  |
|       | 3) MOL (Hibernate Query language) is the Object - Oriented version of sql. It   |
|       | generates the database independent<br>queries. So, we don't need to write<br>database specific queries.   |
|       | (4) Hilbernate Framework provided the facility to create the terbled of dutabase automar tically. So, there is no need to create tables in database manually. |
|       | 3 The performance of hibernate grameworks is fast because cache is internally used in hibernate frameworks.   |
|       | (6) Fetching dates Jrom multiple tubles is easy in hibernate Jromework.   |
|       |   |

| Classes and for handler methods. @ Request Map.  -ping can be applied to the controller class  as well at methods.  3> @ Request Body -  The @ Request Body annotation is applicable to handler methods of Spring controllers  This annotations indicate that spring should  descriptive a sequest body   |        |   |
|---|--------|---|
| The Ocontrollex annotations indicated that a ponticular class servery the role of a controllex annotations is typicallex Spring controllex annotations is typicallex Spring controllex annotations is typicallex Spring controllex annotated hardles methods loased on the @ Request Mapping annotation.  2> @ Request Mapping -  @ Request Mapping -  and widely used annotation is spring muc. It is used to map each requests onto specific hardles classes and lox handler methods. @ Request Mapping an one period to the controller class as well as methods.  3> @ Request Body -  The @ Request Body annotation is applicable to handler methods of spring controllers.  This amotations indicate that spring should deservative a sequest body into an object.  This object is passed as a handler method parameter. | Qu. 87 | Can you emplain some annotation in opining?   |
| The @controllex annotations indicated that a ponticular class serves of the xole of a controllex Spring controller annotations is typically used in combination with annotated handle methods loased on the @ Request Mapping annotation.  2> @ Request Mapping -   |        | Following are the annotations in Spring -   |
| a ponticular class serves of the mole of a controller Spring controller annotations is typically used in combination with annotated handle methods loused on the @ Request Mapping annotation.  2> @ Request Mapping -  @ Request Mapping is the most comment of mapping and widely used annotation is spring Muc. It is used to map each requests onto specific handler classes and lor handler methods. @ Request Mapping can be applied to the controller class as well as methods.  3> @ Request Body -  The @ Request Body annotation is applicated to handler methods of Jorning controllers.  This annotations indicate that spring should deservative a seequest body into an object.  This object is passed as a handler method parameter.   | 1>     | @controller -   |
| and widely used annotation is spring MVC. It is used to map web requests onto specific handles Classes and for handler methods. @ Request Map.  -ping can be applied to the controller class as well as methods.  3> @ Request Body -  The @ Request Body annotation is applicable to handler methods of spring controllers.  This annotations indicate that spring should descriptive a seequest body into an object.  This object is passed as a handler method parameter.  |        | - otter Spring controller annotations is typically used in combination with annotated handle methods loased on the @ Request Mapping          |
| and widely used annotation is spring muc. It is used to map soeb requests onto specific handle classes and low handler methods. @ Request map.  - ping can be applied to the controller class as well as methods.  3> @ Request Body -  The @ Request Body annotation is applicable to handler methods of spring controllers.  This amotetions indicate that spring should descriptive a sequest body into an object.  This object is passed as a handler method parameter.   | 2>     | @ Request Mapping -   |
| The @Request Body annotation is applicable to handler methods of spring controllers  This annotations indicate that spring should deservative a suggest body into an object.  This object is passed as a handler method parameter.  |        | used to map web requests onto specific handles  Classes and for handler methods. @ Request Map.  -ping can be applied to the controller class |
| This a motertions indicate that spring controllers  deservative a sequest body into an object.  This object is passed as a handler method  parameter.  a) pathyaniable -  | 3>     | @ Request Body -  |
| @ pathyon in his  |        | I MI MI MARINE MARINE   |
| which indicates that a method parameter should  |        | @pathyoninhia.  |
|   | - C    | shich indicates that a method parameter should  |

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|    |   |
|    | be bound to a URL template variable.                |
|    |   |
| 5> | @Request Paran -                                    |
|    | In spring, the @ Request param annotations          |
|    | is used to sread the John data and sind it          |
|    | automatically to the pascameter present in the      |
|    | provided method. So, it ignored the sequire-        |
|    | - ment of Http Sexuelet Request Object to read the  |
|    | provided dater.                                     |
|    |   |
| 6> | @RequestHeader-                                     |
|    | In case you want to set degaylt value               |
|    | of parameter you can do so using degaylt para-      |
|    | neter attribute of spring @Request Header           |
|    | annotation.  @RequeltHeader that can be used to map |
|    | contealler parameter to siequest header value.      |
|    | Control parameter                                   |
| 75 | @Réponse Body -                                     |
|    | The @Request Body annotations tells a               |
|    | controller that the object secturned is automa-     |
|    | -tically serialized into Ison and passed back       |
|    | into the HttpResponse Object.                       |
|    |   |
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| Qu.9> | Can you emplain some annotations in hibernate |
| 1)    | @Entity -                                     |
|       | This used for declaring and                   |
|       | POJO class as an entity for a database.       |
| 2)    | atable -                                      |
|       | It is used to change table details,           |
|       | Some of the attributes are                    |
|       | · name - override the tublename.              |
|       | · Schema, Catalogue, enjonce unique Contrant  |
| 3>    | @1d -   |
|       | It is used for declaring a primary            |
|       | Icey înside our PoJO class.                   |
|       |   |
| 4)    | @column -                                     |
|       | It is wed to specify column                   |
|       | mappings. It means it in case we don't        |
|       | need the name of column that we declare in    |
|       | POJO but we need to refer that entity you     |
|       | can change the name jor the database table.   |
| 5>    | @Generated Value -                            |
|       |   |
|       | Value with regerence to the internal sequence |
|       | and we don't need to set the values           |
|       | manually.                                     |
|       |   |
|       |   |
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