Core Java

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- 2. **OOPS**
- 3. STRING MANIPULATIONS
- 4. PACKAGES
- 5. EXCEPTION HANDLING
- 6. MULTITHREADING
- 7. I/O STREAMS
- 8. COLLECTION FRAME WORK

Advanced Java

I.JDBC

II. SERVLETS

III.JSP

IV.<u>IDE</u>

V.SERVERS

IOC: (Inversion of Control) 1) Bean 2) Import 3) Aliasing beans 4) Bean Scopes 5) Autowiring collaborators AOP(Aspect Oriented Programming): Data access using JDBC: Object Relational Mapping (ORM) data access: (Integrating Hibernate with Spring)

Hibernate

Spring MVC:

- Advantages of Hibernate compared to JDBC
- Hibernate architecture

- Configuration xml file and mapping xml file along with dtds
- ORM (Object Relational Mapping)
- Inheritance
- Relations
 (one to one, one to many, many to one, many to many)
- Set, list, bag, array, map in mapping xml file
- HQL (Hibernate Query Language)
- Criteria
- Restrictions
- Order
- Expressions
- Projections
- Declaring functions, stored procedures in hibernate mapping xml file.
- Declaring select queries of HQL in mapping xml file in different ways
- Writing Database specific queries using Session Object

WebServices

Java Web Services and technologies

- WSDL
- SOAP
- UDDI
- CLIENT DESIGN
- REST Ful Web Services.