

1. What is OOPS? Why everybody follows OOPS?
2. What are principles in OOPS with Real Time Example?
3. Why do we use static keyword to main() with example?
4. What is the purpose of args[] in main()?
5. Can you give any name other than args in main method. If yes, write code?
6. Why do we use public keyword to the main() with example?
7. Why do we use void return type to the main()?
8. What is the purpose of System class?
9. What is the purpose of out object?
10. What is the purpose of println()?
11. Difference between print() and println()?
12. Can you write more than one main() class in a single source file. If yes, write code?
13. Can you write more than one public class in a single source file. If yes, write code?
14. Define javac and java with example.
15. How do you compile and execute, If you save the source file with different class name?
16. Explain Identifier with example?
17. Explain Literal with example?
18. What are primitive types in java?
19. How many data types are there in java and explain?
20. What is automatic type conversion and explain with example?
21. What is Casting Incompatible Types in java and explain with example?
22. What is Automatic Type Promotion in Expressions in java and explain with example?
23. What is Type Promotion Rules in java and explain with example?
24. Explain integer division and modulus division with example?
25. Explain post increment and pre increment with example?
26. What are Boolean Logical Operators and explain with example?
27. What are Short-Circuit Logical Operators and explain with example?
28. Difference between Boolean Logical Operators and Short-Circuit Logical Operators?
29. Explain the ? Operator with example?
30. What is Selection or Conditional statement and what are?
31. Write if-else statement syntax?
32. What are switch expression types?
33. What are switch case value types?
34. Can you place default anywhere in switch statement. If yes, write code?
35. What will happen, when no break statement in body of switch-case?
36. What is iteration statement?
37. What are iteration statements?
38. Difference between while and do-while statement?
39. Explain break statement with example?
40. Explain continue statement with example?
41. What is array with example?

42. What is multi dimensional array with example?
43. Explain one dimensional array and multi dimensional array with example?
44. Explain the given statement, `int a[]={3,2,6,5};`?
- 45. What is class and give one example?**
46. What is object and give one example?
47. What are member of class with example?
48. What is new keyword in java with example?
49. What are the method return types?
50. What are the method parameters list?
51. Explain return keyword in java with example?
52. What is constructor with example?
53. How to name the constructor with example?
54. Can you give return type to the constructor. If yes, write code?
55. What is Parameterized Constructor with example?
56. What is the purpose of this keyword with example?
57. Explain Garbage Collection?
58. Explain the `finalize()` Method?
59. Who will invoke `finalize()` Method?
60. Is 100% guaranteed to call `finalize()`?
61. What is method overloading with example?
62. Can you overload more than one class. If yes, write code?
63. Can you overload if only the return types are different. If yes, write code?
64. What is Overloading Constructors with example?
65. Can you pass method parameter as an object. If yes, write code?
66. What is call-by-value with example?
67. What is call-by-reference with example?
68. Difference between call-by-value and call-by-reference?
69. Can you return object. If yes, write code?
70. Explain Encapsulation with example?
71. What is the use of static keyword with example?
72. Can you declare instance variable as a static. If yes, write code?
73. What is instance variable with example?
74. What is local variable with example?
75. What is class variable with example?
76. Difference between local variable, instance variable and class variable?
77. Which type of method called by static method?
78. Which type of variable accessed by static method?
79. Can you refer this keyword from static method. If yes, write code?
80. Can you refer super keyword from static method. If yes, write code?
81. Can you refer static method through class reference. If yes, write code?



82. Can you refer static variable through object reference. If yes, write code?
83. Can you refer static variable through class reference. If yes, write code?
84. Explain final keyword in java with example?
85. Can you modify final variable in java. If yes, write code?
86. What is nested class with example?
87. What is Inner class with example?
88. What is static inner class with example?
89. What is non-static inner class with example?
90. Can you write inner class within the method. If yes, write code?
91. Can you write inner class within the block. If yes, write code?
92. Can you refer outer class member from inner class. If yes, write code?
93. Can you refer inner class member from outer class. If yes, write code?
94. Can you create inner class object from outside of outer class. If yes, write code?
95. Can you create inner class object from some other class. If yes, write code?
96. What is Inheritance with example?
97. Which keyword used to inherit a class with example?
98. Can you inherit multiple classes into a class. If yes, write code?
99. Can you inherit multilevel hierarchy in java. If yes, write code?
100. What is super keyword in java with example?
101. How do you invoke base class constructor with example?
102. Which keyword used to access base class method from subclass with example?
103. Which keyword used to access base class variable from subclass with example?
104. Where do you write super() with example?
105. What is method override with example?
106. Can you overload subclass and base class methods. If yes, write code?
107. What is dynamic method dispatch or run time polymorphism with example?
108. What is abstract class with example?
109. What is abstract method with example?
110. What are member of abstract class with example?
111. What is interface with example?
112. What are member of interface with example?
113. How do you use interface method in a class with example?
114. How many interfaces needed to implements in a class with example?
115. Can you declare a variable in an interface. If yes, write code?
116. Can you declare private method in an interface. If yes, write code?
117. Can you declare public method in an interface. If yes, write code?
118. Can you declare abstract method in an interface. If yes, write code?
119. Can you declare a constant in an interface. If yes, write code?
120. Can you extend multiple interface into an interface. If yes, write code?
121. What is package with example?
122. Difference between abstract class and interface?

123. Where do you place package statement in a java source file?
124. Where do you place package and import statement in a java source file with example?
125. What is import keyword in java with example?
126. How do you import a class in a java source file with example ?
127. How do you import all classes in a java source file with example ?
128. What are access specifiers in java?
129. Explain private access specifier with example?
130. Explain public access specifier with example?
131. Explain protected access specifier with example?
132. Explain default access specifier with example?
133. What is the access specifier rule for overriding method?
134. What are class level access specifiers?

**135. What is exception?**

136. How exception can be generated?
137. What are the keywords used in the exception handling and explain?
138. Explain try block in exception handling with example?
139. Explain catch clause in exception handling with example?
140. Explain throw keyword in exception handling with example?
141. Explain throws keyword in exception handling with example?
142. What are the exception declare after the throws keyword?
143. Explain finally block in exception handling with example?
144. What are exception types?
145. Difference between Error and Exception?
146. Can you use multiple catch clause to a try block. If yes, write code?
147. Can you use try block within a try block. If yes, write code?
148. What is Checked Exception with example?
149. What is Unchecked Exception with example?
150. How do you generate user defined exception with example?
151. What is Type Wrapper?
152. What are Type Wrappers?
153. How you convert String into int with example?
154. Which one is the default package in java?
155. What do you mean default package in java?
156. How do you execute other application in java?
157. Can you do the Garbage Collection explicitly?
158. What is cloning?
159. How do you clone the object with example?
160. How do you round the value with example?
161. How do you square the value with example?
162. How do you square root the value with example?



163. What are the different types of streams?
164. Which method is used to read a character from the reader with example?
165. Which method is used to read a line of characters from the reader with example?
166. Which class is used to read a file with example?
167. Which class is used to write a file with example?
168. What is Serialization?
169. What are not Serialized?
170. How do you serialize the object?
171. How do you deserialize the object?
172. Difference between String and StringBuffer with example?
173. Difference between String and StringBuilder?
174. Difference between StringBuffer and StringBuilder?
175. How do you find out the length of String with example?
176. Find out the output: `System.out.println(" Output : "+5+5);`
177. How do you convert String into character array with example?
178. Difference between `equals()` and `==` operator with example?
179. What is substring with example?
180. Explain the purpose of `concat()` with example?
181. How do you replace a character from the string with example?
182. How do you remove the leading and trailing space from a string with example?
183. How do you convert all the character in a string to uppercase with example?
184. How do you convert all the character in a string to lowercase with example?
185. How do you concatenate StringBuffer object to String object with example?
186. How do you insert String into StringBuffer with example?
187. How do you reverse characters in a StringBuffer object with example?
188. How do you delete characters in a StringBuffer object with example?
189. How do you replace characters in a StringBuffer object with example?
- 190. How do you run the applet program?**
191. Difference between applet and swing?
192. Name the classes available in `java.util.regex` package?
193. Explain the below methods in `Matcher` class.
  - a. `find()`
  - b. `start()`
  - c. `group()`
194. What is use of `Dot(.)` symbol in Java Regex?
195. What are the different repetition operators in Java Regex?
196. What is difference between `matches()` and `find()` in Java Regex?
197. What is the purpose of `Scanner` class?
198. Explain about `InputMismatchException` and `NoSuchElementException`?
199. What is the difference between `next()` and `nextLine()` method in `Scanner` class?
200. What is the return type of `String.split()` method?
201. \_\_\_\_\_ is the default delimiter for string tokenizer.

202. Explain compareTo() method in Date class with example?
203. java.util.Calendar is a class or interface?
204. How to create object for Calendar class?
205. How to represents a specific geographical region?
206. What is the return type of getAvailableLocales() method?
207. Which class is used to retrieve the currency information of the specific locale?
208. java.util.Properties class represents a set of properties such as \_\_\_\_\_
209. How to create ResourceBundle Object?
210. Which method is used to get a value for the given key from the resource bundle.?
211. Which method returns a Set of all keys contained in this resource bundle?
212. \_\_\_\_\_ is an abstract base class for formatting locale-sensitive information such as dates, messages, and numbers
213. format() method is used to convert \_\_\_\_\_ into \_\_\_\_\_.
214. parse() method used to convert \_\_\_\_\_ into \_\_\_\_\_.
215. How to create DateFormat object?
216. \_\_\_\_\_ is a concrete sub class of DateFormat. It is used for formatting and parsing dates in a locale-sensitive manner with user-defined patterns.
217. java.text.DecimalFormat is a concrete subclass of \_\_\_\_\_ abstract class that extends \_\_\_\_\_
218. Explain the classes of java.math.BigDecimal and java.math.BigInteger.
219. What is Networking?
220. What is IP address? Give any one sample ip address.
221. What is protocol? What are the types of protocol?
222. What is the default protocol for http?
223. What is URL? Write the syntax of URL.
224. \_\_\_\_\_ is an abstract class which creates a communication link between URL and application.
225. \_\_\_\_\_ method returns the data of specified url that can be read and write.
226. \_\_\_\_\_ is used to connect two machines using TCP protocol.
227. Socket class is used to \_\_\_\_\_ (send / receive) the request to the server waiting for responses.
228. How to create Socket object?
229. What is ServerSocket?
230. How to create ServerSocket Object?
231. What is DatagramSocket and DatagramPacket?
- 232. What is autoboxing with example?**
233. What is auto-unboxing with example?
234. Can you autobox boolean. If yes, write code?
235. Can you auto-unbox Boolean. If yes, write code?
236. Can you autobox char. If yes, write code?



237. Can you auto-unbox Character. If yes, write code?
238. Explain enhanced for loop with example?
239. What is Variable-Length Arguments with example?
240. How many Variable-Length Arguments in a method parameter list with example?
241. Where do you place Variable-Length Arguments in a method parameter list with example?
242. How do you identify Variable-Length Arguments in a method parameter list with example?
243. How many arguments accept by a Variable-Length Arguments with example?
244. Can you overload Variable-Length Arguments method. If yes, write code?
245. What is enum with example?
246. Can you instantiate an enum. If yes, write code?
247. Can you give constructor in an enum. If yes, write code?
248. Can you give method in an enum. If yes, write code?
249. Can you give instance variable in an enum. If yes, write code?
250. Can you overload constructor in an enum. If yes, write code?
251. Can you extends one enum to another enum. If yes, write code?
252. How do you find out enumeration constant position with example?
253. What is annotation with example?
254. Can you write annotation syntax?
255. What is Retention policy?
256. Explain the SOURCE of Retention policy?
257. Explain the CLASS of Retention policy?
258. Explain the RUNTIME of Retention policy?
259. Which one is the default Retention policy?
260. What is reflection?
261. How do you obtain a Class object with example?
262. How do you get the method name from Class object with example?
263. How do you obtain the Annotation from Method with example?
264. How do you obtain the all Annotation from Method with example?
265. What is marker annotation?
266. What are built-in annotation?
267. Explain the purpose of Generics with example?
268. Can you work generics with primitive type. If yes, write code?
269. Can you pass different argument from different situation to a generic template. If yes, write code?
270. Why do you use bounded type in generics with example?
271. Why do you use wildcard argument in generics with example?
272. What is transient modifier?
273. What is volatile modifier?
274. What is instanceof with example?
275. What is assert with example?
276. When the AssertionError is thrown with example?
277. Explain the purpose of assert?



278. Is it the assert is default disable. If yes, how do you enable?
279. What is static import?
280. How do you import static member of a class with example?
281. How do you import static member of an interface with example?
- 282. What are important interfaces in a collection?**
283. What are important classes in a collection?
284. Difference between Array and Collection?
285. Explain the purpose of List Interface?
286. Explain the purpose of Set Interface?
287. Explain the purpose of Map Interface?
288. Difference between Array and ArrayList?
289. Difference between Vector and ArrayList?
290. How do you remove the duplicate from the ArrayList with example?
291. What is LinkedHashSet?
292. What is TreeSet?
293. What is HashMap?
294. What is Hashtable?
295. What is LinkedHashMap?
296. What is TreeMap?
297. How do you convert List to Array?
298. What is Iterator Interface?
299. What are important methods in Iterator?
300. How do you access object backward in a collection?
301. What is Enumeration Interface?
302. What are important methods in Enumeration Interface?
303. Difference between HashMap and Hashtable?
304. Difference between List and Set?
305. Difference between Iterator and Enumeration?
306. What is LinkedList?
307. How do you insert object into the HashMap?
308. How do you access ArrayList with example?
309. How do you access Vector with example?
310. How do you access HashMap with example?
311. What is JDBC?
312. How many drivers available in JDBC and what are?
313. Which driver is the most useful driver in real time?
314. Explain the basic steps to use JDBC?
315. What are different Statements in JDBC?
316. How do you load the driver with example?
317. How do you connect database with example?



318. Explain about thin driver in JDBC with example?
319. How do you create Statement object with example?
320. How do you create PreparedStatement object with example?
321. How do you create CallableStatement object with example?
322. Explain executeQuery() in JDBC with example?
323. What is the return type of executeQuery() method?
324. How do you retrieve records from the database with example?
325. Explain executeUpdate() in JDBC with example?
326. What is the return type of executeUpdate() method?
327. Explain execute() in JDBC with example?
328. Explain next() in JDBC with example?
329. Difference between Statement and PreparedStatement?
330. What is multi threading?
331. What are two types of multitasking?
332. What is process based multitasking with example?
333. What is thread based multitasking with example?
334. Which one is the important method in threading?
335. How to start the thread with example?
336. How to suspend a thread?
337. Explain join() method in threading with example?
338. How to obtain a name of the thread with example?
339. How do you check thread is still running or not with example?
340. When is the main thread finish execution?
341. When is the child thread finish execution?
342. When will create the main thread?
343. How do you create a thread with example?
344. What are two different ways to create thread with example?
345. Which one is the best way to create a thread?
346. What are thread priorities?
347. What is Synchronization with example?
348. Explain different ways of synchronization with example?
349. Which class is the top most class in java?
350. What are methods in Object class?
351. Explain wait() and notify() with example?
352. Which class has the methods of wait() and notify()?
353. What is dead lock?
354. Explain stop() in threading?
355. How do you restart the stopped thread?