**Deloitte Pre-hire Training**

**Pre-Test – Java**

Part – 1 : MCQ based knowledge based assessment

Part – 2 : Skill Based Assessment : Where the trainees has to Execute the program with test case

Part 1

***Number of Questions: 20 Marks: 20 Duration: 30 minutes***

* **1. Which of the following statements are true about Java? Select all that apply**
* Java code is platform-independent.
* Java code is the same as JavaScript.
* Java is an object-oriented programming language.
* A Java program executes a single thread at any given time.
* **2. In a Java program, which of the following is not a part of an object’s definition?**
* Description
* Methods
* Associations with other objects
* Name
* **3. The last value in an array called arrayList can be found at index:**
* 0
* 1
* arrayList.length
* arrayList.length - 1
* **4. What will be the value of “SumOfNum” after the following statements?**

int SumOfNum;

SumOfNum = (2+1);

SumOfNum = SumOfNum / 3;

SumOfNum = 3;

* 0
* 1
* 3
* SumOfNum

* **5. In the inheritance principle, which of the following can a derived subclass object directly access?**
* A private superclass member
* A public or private superclass member
* A protected, public or private superclass member
* A public superclass member (and protected subclass members)
* **6. Which of the following is the correct data type for this value: 0?**
* int
* double
* String
* boolean
* **7. What will the result of this statement be?**

int age = 71.6;

* Runtime error
* Compilation error
* 71.6 assigned to age
* 72 assigned to age
* **8. Which of the following is the syntax to define the Java main method?**
* public static void main()
* public void main(String[] args)
* public static void main(String args[])
* public static void main(string[] args)
* **9. On which of the following operating systems does Java run?**
* Windows
* Unix/Linux
* Mac
* All of the above
* **10. Which of the following Java packages provides various classes, such as Object, System, and Class?**
* java.lang
* java.util
* java.awt
* java.net
* **11. Which of the following methods accepts one parameter of data type, double and returns the double value of the next higher integer of the parameter?**
* ceil()
* floor()
* abs()
* max()
* **12. Which of the following statements is true about Java servlets? Select all that apply.**
* Servlets are server-side Java programs used to develop powerful Web applications.
* The servlet initialization code is executed each time the code is executed.
* The servlet has one single thread that handles all client requests.
* Servlets inherit all the features of the Java programming language.
* **13. Which of the following is not a step when implementing the Request Dispatcher Mechanism?**
* Transferring data
* Dispatching a request
* Saving user requests to a database
* Forwarding requests to another Web page
* **14. Which of the following application area of filters consists of tracking the client-related information, such as IP address or request URL?**
* Logging information
* Performing authentication
* Compressing the response
* **15. Which of the following tasks can you perform using JSP actions? Select all that apply.**
* Insert files
* Reuse beans
* Instantiate objects
* Map objects to classes
* **16. Which of the following is the first phase in the conversion of a JSP page to a servlet?**
* Compilation
* Servlet instance creation
* Servlet initialization
* Translation
* **17. What information do implicit objects in JSP contain? Select all that apply.**
* Information related to a particular request
* Information related to a particular page
* Information related to a particular application
* Information related to a particular object
* **18. Which of the following are features of J2EE? Select all that apply.**
* Applications can be deployed on different application servers without changing code.
* It enables transaction management, security, naming and messaging.
* Applications use proprietary technologies to develop portable server applications.
* **19. Under which of these circumstances should you use EJB?**
* When the application does not contain much business logic
* When the required J2EE skill is missing as it is very complex and costly
* When the application is simple and does not require scalability, transaction management, etc.
* When you want access to complex resources such as Transaction and Security management, JNDI, and Component lifecycle management
* **20. Which of the following is not part of the architecture of JSF technology?**
* Rendering model
* Conversion model
* UIComponet classes
* Stateful session bean

**Part B- Skill Based assessment**

Write a program to reverse the given string and count number of vowels in it