



CMR INSTITUTE OF TECHNOLOGY

UGC Autonomous

Kandlakoya(V), Medchal Road, Hyderabad – 501 401.

Mid-1 Assignment

A.Y.: 2023-24

1

Course: II-B.Tech.I-Sem

Branch

:CSE/ CSE(AIML)/CSE(DS)

Sub : Object Oriented Programming through JAVA

Marks

:5

1. Create a Java program to compute the sum of the digits of a given integer number use BufferedReader for user input. Explain the usage of operator new with an example.
2. Distinguish widening and narrowing in java with example.
3. Explain the uses of super with an example. Does a super class reference be used to refer sub class object? Justify.
4. Illustrate Dynamic binding with a suitable example.
5. Sketch the Exception hierarchy and also give the benefits of Exception Handling. Is it essential to catch all types of exceptions? Justify your answer.



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1. Demonstrate Object Oriented Programming concepts.
2. Illustrate the use of this keyword in Java.
3. Distinguish abstract class and interface with suitable examples. How interface achieving full abstraction Justify.
4. What are the types of Inheritance? Explain with suitable example.

5. Illustrate throwing an exception explicitly? Can you throw multiple exceptions in one throw statement? Justify.



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1. Compare different types of variables in Java and discuss the scope and lifetime of variables?
2. Java is a platform independent language. Justify the statement.
3. How to create and use user-defined packages?
4. Discuss the access control use in Java. Explain with an example.
5. Explain the usage of throw and throws with a suitable example for each.



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1. Demonstrate the String class methods with suitable examples.
2. Contrast: Method overriding Vs. Method overloading. Which is necessary for runtime polymorphism? Justify.
3. Write a java program to demonstrate the use of Interfaces in achieving multiple inheritances.
4. Explain various methods in Object class.

5. Create a user-defined exception and demonstrate its usage. Create a try block that is likely to generate three types of exception and then incorporate necessary catch blocks to catch and handle them appropriately.