



Tribhuvan University
Faculty of Humanities and Social Science
Semester: III
Subject: OOP in JAVA
2023

Group B

Attempt any SIX questions

2. What is java Buzzwords? Write a java program to find simple interest. Use command line argument to take input.
3. What are uses of super keyword? Write a java program to create base class Fruit which has name, taste and size as its attributes and method called eat() which describe name and its taste. Inherit the same in two other class Apple and Orange and override the eat() method to represent each fruit taste.
4. What is difference between String and StringBuffer class? Write a java program to identify the input string is palindrome or not?
5. Why we need file handling in java? Write java program to read file into a variable and then write a variable's content into another file.
6. What is the purpose of valueOf() method in Wrapper classes? Write a java program to generate random integer, double and bytes.
7. What is internal frames? Write a java program that display two internal frame within some parent frame.
8. What is JDBC? Write java program to connect database College and display all student information (Roll, Name, Address and Program) from Student table.

Group C

Attempt any TWO questions

9. What is Constructor overloading? Write a class Distance containing private variable feet of type int and inches of type int, suitable constructors and three methods addDistance, subtractDistance and display Distance for adding, subtracting and displaying objects. Write a separate class MyDistance containing main method to create, add, subtract and display distance objects.
10. a) What is difference between checked and unchecked exception? Write a java program that will read college name from keyboard and display it on screen. The program should throw an exception when length of college name is more than 50.
b) What are methods used for inter-thread communication? Write a java program to create two threads so that one thread prints even number and other thread prints **odd number** between 100 and 200. What is MVC design pattern? Write a GUI program using swing components to calculate sum and difference of two numbers. Use two text fields for input and pre-built dialog box for output. Your program should display sum if Add button and difference if subtract button is clicked.

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2022

Group B

Attempt any SIX questions

2. What is jagged array? Write a java program to initialize and display jagged array element with sum of each row.
3. What are uses of this keyword? Write a java program to implement method overloading concept.
4. Why inheritance is needed in java? How will you implement multiple inheritance using interface? Explain with program.
5. What is multithreading? Explain with program how you will create thread by implementing runnable interface and extending Thread class.
6. What are exception handling keyword in java? Write java program to illustrate the concept of NullPointerException and NumberFormatException.
7. What is serialization? Write a java program to write three student information (Roll, Name, Address, College) into file student.txt and display the student information whose address is Jhapa.
8. What is Wrapper class? Explain with program, how will you use iterator and comparator in collection objects?

Group C

Attempt any TWO questions

9. What is difference between class and interface in java? Create a java class Time with three attribute hours, minutes and seconds. Use appropriate constructors to initialize instance variable. Use methods to display time in HH:MM:SS format, add and subtract two time object. Implement the class to add, subtract and display time object.
10. How AWT is differing from Swing? Write a GUI program using components to find factorial and cube of number. Use TextField for giving input and Label for output. The program should display factorial if user press mouse on result button and cube if user release mouse from result button.
11. What is JDBC? Write a java program to connect database Company and insert 5 employee record (EID, Ename, Salary, Department) in Employee table and display the employee record who's Department is "Sales".

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2021

Group B

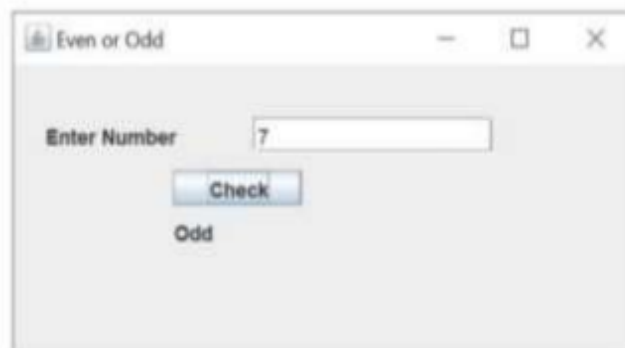
Attempt any SIX questions

2. Explain features of Object oriented concept in detail.
3. What is a continue statement? Write a program in java that displays the sum of odd integers of an array.
4. What is parameterized constructor? Explain with an example.
5. Explain method overloading in java with proper example.
6. What is the use of 'this' and 'super' keyword? Explain with examples.
7. Define exception. How exceptions are handled in java? Explain with a proper
8. Write short notes on (Any Two):
 - a) Interface
 - b) Access modifiers
 - c) JDBC

Group C

Attempt any TWO questions

9. a) Define inheritance. Explain the use of "extends" keyword in java.
b) What is an abstract class? Explain its use with an example.
10. a) List and explain any five String methods used in Java with examples.
b) Differentiate between byte stream and character stream. Write a program to copy the content of a file to another file using streams.
11. a) Create the following GUI form in Java that checks a number entered in the text box is even or odd.



- b) Differentiate AWT with swing. Explain any two layout management in Java

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2020

Group B

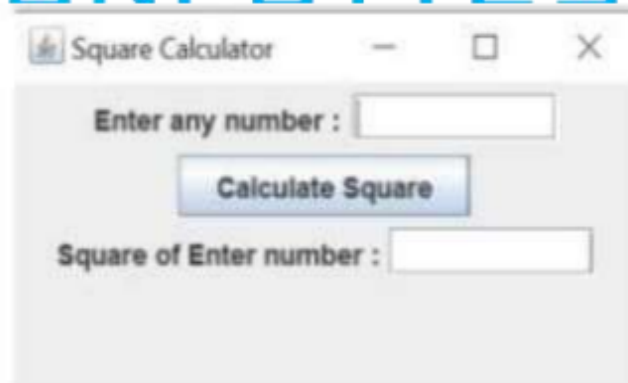
Attempt any SIX questions

2. Define OOP. Write the characteristics of OOP language.
3. Explain the operators available in Java programming.
4. Define loop. Write a java program to print first n prime numbers.
5. Differentiate between abstract class and interface with suitable example.
6. Define access modifier. Explain access modifiers in java with example.
7. Define exception. Explain exception handling mechanism in java with example.
8. Write short note on (Any Two);
 - a) Final keyword
 - b) Collection class
 - c) JDBC

Group C

Attempt any TWO questions

9.
 - a) Write a program to create and use java package.
 - b) Define thread. Explain the life cycle of thread.
10.
 - a) Write a program to sort name of any five cities in ascending order.
 - b) Define polymorphism. How do we achieve polymorphism in java explain with example?
11.
 - a) Differentiate between java AWT and java Swing. Explain the different types of layout managers in java GUI programming.
 - b) Write a java GUI program to calculate square of entered number.



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Tribhuvan University
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2019

Group B

Attempt any SIX questions

2. Define OOP. Explain features of Object Oriented Programming Language.
3. Explain different types of control statements used in java.
4. Define Abstract Class. Explain different types of Access controls available in java.
5. Define method overriding? Write any program to implement concept of multiple inheritance in java.
6. Why it is important to handle exception in java? Write a program to illustrate the use of exception handling.
7. Define the use of static keyword. Write any four String methods used in java with example.
8. Define super, final and this keyword in java. Explain the concept of MVC in brief.

Group C

Attempt any TWO questions

9. a) Define multithreading. Write a java program to show the inter-thread communication.
b) Define Stream. Write a program in java to copy the content from one file to another.
10. a) Define Collection Class. Explain different Wrapper classes and associated methods in java.
b) Define AWT. Explain different types of Layout Managers in java
11. a) List and explain any five swing controls with their uses.
b) Define JDBC. Write a program to display all records from a table of database.

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