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| Module | Date | Vendor | Faculty | Batch Id | Location | Assignment No | Assignment | Time | Topic | Difficulty  level |
| java | 10-1-2023 | vinsys | Kumar Praveen Soratur | 80000608 | Bangalore | 1.0 | No assignment is given  On first day as training was started at 11:30 and Most of the syllabus was  Theory up to operators covered | NIL | NIL | NIL |
| Java | 11-1-2023 | Vinsys | Kumar Praveen Soratur | 80000608 | Bangalore | 2.1 | write a java program to find the sum of 2 numbers using command line arguments uisng Eclipse | 10  mins | Java  fundamentals | medium |
| 2.2 | write a java program to read 10 elements from array and find the smallest element | 30  mins | Arrays  Loops and  Controls  statements | tough |
| 2.3 | write a java program to find the sum of digits | 20 mins | Loops and  Controls  statements | medium |
| Java | 12-1-2023 | Vinsys | Kumar Praveen Soratur | 80000608 | Bangalore | 3.1 | Write a Program which creates a class  "student" with the following Data  Members  rollno ,studname ,mark1, mark2, mark3, totalmarks  Methods  setStudDetails() – which sets the values to all the data  members except totalMarks.  calculateTotal() - which calculate the totalMarks  displayStudDetails() – which displays rollNum, studName  and totalMarks  Create a class StudentDemo to test the functionality  of Student class | 30mins | Oops conceps  Methods | medium |
| 3.2 | Create a class Customer with the fields custId,  custName and custAddress. Create a method display()  which displays the Customer details. Create a class  Account with the fields acctId, acctType, Customer and  acctBalance. Create a method display() which displays  Account Details Create a main class “AccountTest” to test  the above classes  Note: Use constructors to set the values to the fields  of the classes | 30 mins | Oops concepts  Methods | medium |
| 3.3 | Write a program to implement Copy constructor  using Constructor | 15 mins | Oops conceps  Methods | medium |
| 3.4 | Write a Program to implement SINGLETON class | 15 mins | Oops conceps  Methods | tough |
| java | 13-1-2023 | vinsys | Kumar Praveen Soratur | 80000608 | Bangalore | 4.1 | Create a class Account with the attributes  accountNo – int, accountType – String,  accountBalance – int and methods setAccountDetails()  which set the values to these attributes,  withdraw() which subtracts the given amount from the  available balance, deposit() which adds given amount  to the available balance and dispAccountDetails()  which displays accountNo, accountType, accountBalance.  Create a class Main1 which contains main() method to test  the functionality of Account class | 30 mins | Oops concepts  aggregation | medium |
| 4.2 | Create a class Book with the data members bno,bname,  price. Create a class SpecialEditionBook which is  subclass of Book and with a data member discount.  Create a class BookTest with main() to test the  above classes Note - Use constructors to give the values  to the data members - create a method display() in Book  class which displays bno,bname and price and  override the same display() of Book class in  SpecialEditionBook which displays bno,bname,price using  super.display() and display the value of discount. | 30 mins | Oops  inheritance | medium |
| 4.3 | Write a Java program to implement Stack using array  and oops concepts  O/P must be as follows  Please press any number from the following operations:-  1. Insert an element  2. Pop an element  3. Display the elements of the stack  4. Exit | 30 mins | Oops and  Java fundamentals | tough |
| java | 16-1-2023 | vinsys | Kumar praveen soratur | 80000608 | Bangalore | 5.1 | Create an abstract class 'Bank' with an abstract method  'getBalance'. $100, $150 and $200 are deposited in banks  A, B and C respectively. 'BankA', 'BankB' and 'BankC'  are subclasses of class 'Bank', each having a method named  'getBalance'. Call this method by creating an object of  each of the three classes. | 20 mins | Inheritane abstrcation | medium |
| 5.2 | Create an abstract class 'Animals' with two abstract  methods 'cats' and 'dogs'. Now create a class 'Cats'  with a method 'cats' which prints "Cats meow"  and a class 'Dogs' with a method 'dogs' which prints  "Dogs bark", both inheriting the class 'Animals'.  Now create an object for each of the subclasses and call  their respective methods. | 20 mins | Inheritance and  abstraction | medium |
| 5.3 | We have to calculate the percentage of marks obtained  in three subjects (each out of 100) by student A and in  four subjects (each out of 100) by student B. Create  an abstract class 'Marks' with an abstract method  'getPercentage'. It is inherited by two other classes  'A' and 'B' each having a method with the same name which  returns the percentage of the students. The constructor  of student A takes the marks in three subjects as its  parameters and the marks in four subjects as its  parameters for student B. Create an object for each  of the two classes and print the percentage of marks  for both the students. | Inheritance abstract class | 30 mins | medium |
| Java | 17-01-2023 | Vinsys | Kumar praveen soratur | 80000608 | bangalore | 6.1 | Write a Java Program to implement Queue using  Array and interface. Declare an interface called  Que with following methods enqueue() dequeue()  isFull() isEmpty() display() and implement by class | 30 mins | Interfaces | tough |
| 6.2 | Write a program to prove that abstract class is used to  implement Interface methods | 15 mins | Interface  Abstract class | medium |
| 6.3 | Write a program to wtite a class in a an inetrface | 15 min | interface | easy |
| 6.4 | Input a string of alphabets. Find out the number  of occurrence of all alphabets in that string.  Find out the alphabet with maximum occurrence. | 30 mins | Strings | Tough |
| Java | 18-1-2023 | Vinsys | Kumar praveen soratur | 80000608 | Bangalore | 7.1 | Write a program to delete all consonents from the string  "Hello, have a good day" | 20 mins | strings | medium |
| 7.2 | write a program to prove that CheckedException  are propagated using throws clause | 15 mins | exception | easy |
| 7.3 | w.a.p to develop banking application  and implement deposit and with draw operations  Create InsuficientFundsException throw it and handle it  if we try to with draw amount which is greater  than the balance in amount  Excepted O/P  Depositing $500...  Withdrawing $100...  Withdrawing $600...  Sorry, but you are short $200.0  InsufficientFundsException  at CheckingAccount.withdraw(BankDemo.java:47)  at BankDemo.main(BankDemo.java:13) | 30 mins | exception | tough |
| Java | 19-1-2023 | Vinsys | Kumar praveen soratur | 80000608 | bangalore | 8.1 | Write a program, which can run two-thread simultaneously.  One thread will calculate the factorial of a number  and another thread generates fibonecci no up to n | 30 mins | Multi threading | tough |
| 8.2 | Using Multi threading write a program to calculate  fibonecci no at 'n' th position | 30 mins | Multi threading | tough |
| 8.3 | using Multi Threading and interthread communication  find the odd and even no between 1 to 20 | 30 mins | Multi threading | tough |
| 8.4 | Using Synchronization write a multithreading program  to send a Message  Expected O/P  Sending a Message: Hi  Hi Sent  Sending a Message: Welcome to TechM  Welcome to TechM Sent | 20 mins | Multi threading | medium |
| Java | 20-1-2023 | Vinsys | Kumar praveen soratur | 80000608 | bangalore | 9.1 | create a class called Person with id, name and age  Store 5 objects of Person class in TreeSet and  sort on names using Comparator Interface | 30 mins | collections | tough |
| 9.2 | create a class called Person with id, name and age  Store 5 objects of Person class in HashSet and sort on  names and ages | 30 mins | Collections | tough |
| 9.3 | create a class Student with name and course  create a class college with name and location  insert 3 objecs of Student as key  insert 3 objjects of college as value  in HashMap and  sort on student name in ascending order  sort on student cource in desending order  and display | 30 mins | Collections and Map | tough |
| 9.4 | create a class called Book with id ,name, author and price  insert 5 objects in ArrayList and sort on names  using Comparator interface using lamda expression | 30 mins | collections | tough |
| 9.5 | create a class called Product with id name and  price  enter the 5 objects and insert into ArrayList  and display all the products whose price is > 20000 | 30 mins | Collections and  Stream API | tough |
| 9.6 | Create a Class called Student with id name and age  and insert 5 Objects in List and extract name and age  and store into map  using Streams | 30 mins | Collections Map and  Stream API | tough |
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