1. Write a program for constructor overloading along with using this pointer ? Create only one instance and pass three arguments and using this call remaining ?
2. Write a program which holds a one non-static class and one final class implement static-methods and static-fields in final class and final-methods and final-fields in non-static class and access it in main ?
3. Write a program for method overloading using fixed arguments (no 3) and implement method calling also using three arguments and every time it is updated only one field. And print all the modified fields using another method.
4. Write a program to implement String literal and String object and implement the fallowing methods of String class. (Take input strings INFORMATION TECHNOLOGY, CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY)
   1. [**charAt**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#charAt-int-)**()**
   2. [**concat**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#concat-java.lang.String-)**(**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html)**str)**
   3. [**indexOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#indexOf-int-)**(int ch)**
   4. [**length**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#length--)**()**
   5. [**substring**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#substring-int-int-)**(int beginIndex, int endIndex)**
   6. [**toLowerCase**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#toLowerCase--)**()**
   7. [**toUpperCase**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#toUpperCase--)**()**
   8. [**trim**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#trim--)**()**
   9. [**valueOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-int-)**(int i)**
5. Write program to implement StringBuffer class and implement fallowing programs (Take input strings INFORMATION TECHNOLOGY, CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY)
   1. [**append**](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html#append-java.lang.String-)**(**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html)**str)**
   2. [**append**](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html#append-java.lang.StringBuffer-)**([StringBuffer](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html" \o "class in java.lang) sb)**
   3. [**charAt**](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html#charAt-int-)**(int index)**
   4. [**deleteCharAt**](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html#deleteCharAt-int-)**(int index)**
   5. [**delete**](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html#delete-int-int-)**(int start, int end)**
   6. [**indexOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html#indexOf-java.lang.String-)**(**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html)**str)**
   7. [**insert**](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html#insert-int-char:A-)**(int offset, char[] str)**
   8. **repalce(int start, int end,**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html)**str)**
   9. [**reverse**](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html#reverse--)**()**
   10. [**toString**](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html#toString--)**()**

## Write program to implement  StringTokenizer class

## (Take input strings INFORMATION TECHNOLOGY, CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY)

1. [**countTokens**](https://docs.oracle.com/javase/7/docs/api/java/util/StringTokenizer.html#countTokens())**()**
2. [**hasMoreElements**](https://docs.oracle.com/javase/7/docs/api/java/util/StringTokenizer.html#hasMoreElements())**()**
3. [**hasMoreTokens**](https://docs.oracle.com/javase/7/docs/api/java/util/StringTokenizer.html#hasMoreTokens())**()**
4. [**nextElement**](https://docs.oracle.com/javase/7/docs/api/java/util/StringTokenizer.html#nextElement())**()**
5. [**nextToken**](https://docs.oracle.com/javase/7/docs/api/java/util/StringTokenizer.html#nextToken())**()**
6. Write program to implement wrapper classes of all types and write a program to accept input to wrapper classes by using Scanner class ?(means boxing is supposed to be done by the input u given accepting like parameter)
7. Write a program create anonymous inner class by extending class ? Write a program create anonymous inner class by implanting interface ? (Take atlest 3 methods and override) ?
8. Implement a bank application using Exception handling mechanism to implement user defined exceptions as checked exceptions
   1. create a package named exceptions and create 4 exceptions
      1. InSufficientFundsException
      2. InvalidAmountException
      3. InvalidTransactionException
      4. InvalidAmountException
   2. Create a package called bank
      1. Crate interface Bank insert methods

**public** **void** deposite(**double** amount) **throws** InvalidAmountException;

**public** **double** withdraw(**double** amount) **throws** InSufficientFundsException;

**public** **void** blanaceEnquiry();

* + 1. Create a concrete class SbiBank implementing all the methods
  1. Crate a package user and crate a class BankClerk
     1. Implement all operations like deposit, withDraw, blanceEnquiry all the in switch case and handle the use defined exceptions.

1. Create an interface student and add the fallowing methods

**public** **void** getProfile();

**public** **void** getAddress();

**public** **void** getEducationDetails();

**public** **void** getCollegeAdmisionDetails();

**public** **void** getSem();

**public** **void** getSubjects();

And create an abstract class CurrentSemester and create two methods

**public** **abstract** **void** getSem();

**public** **abstract** **void** getSubjects();

create a concrete class StudentInfo extends CurrentSemester and implement all methods except fallowing

**public** **void** getEducationDetails()

**public** **void** getCollegeAdmisionDetails() implement these two methods without body

and create a class CollegeInfo extends StudentInfo implement the above methods

Crete a TestClass call all methods using interface reference.

**Note:** take relavent fields in each method and accept from keyboard to print “n” student details.

1. Write program to implement the fallowing
   1. Create an interface Traveling Agency{//methods as fallows
      1. getFare()
      2. getRoute()
      3. getTimings
      4. getticketDetails()
   2. create abstract Class FoodService{//methods
      1. getFood(){item menu veg& non veg}
      2. getOrder(){take order and serve food}
   3. implement 4 concrete classes AirBus, Train, AcBus, AcCar and override all the methods along with abstract methods and print each detail for each class.
   4. Note: take relevant fields in each method
2. Implement multipleInharitance for **day out planner** take three interfaces
   * 1. Resort
     2. Buffet
     3. Transportation

Resort holds methods

1. Resort name
2. ConferenceRooms
3. Water Park
4. Indoor Games
5. Outdoor Games
6. DJ with Rain Dance
7. Create a default method Package price

Buffet holds

1. Veg items menu
2. Non-veg items menu
3. Snacks menu
4. Create default method price of buffet

Transportation holds

1. Pick up locations
2. Droping locations
3. Type of vehicles available
4. Create a default method price of transportation

Implement a class DayOut from all the three interfaces.(fallow jdk8 inharitance declaration) take a switch case and plan dayout according to budget.

1. Write programs to restrict inheritance ? what are the various ways ?
2. Write a program to implement throws for default exceptions ?(ex : IOException  
   FileNotFoundException, CloneNotSupportedException)
3. Write a program for throw statement by creating user defined class and handle the exception using try and catch ?
4. Write a program to implement ArrayList generic type <String> inset 10 names and print implement iterator and print using iterator the names start with vowels ? and remove last element using Remove method of Iterator interface ?
5. Write ArrayList of ArrayLists so that The inner ArrayLIst contains three elemnts
   * 1. String name;
     2. Int roolno
     3. Double CGPA

Using ListIterator navigate with in the ArrayList print both in forward direction and reverse direction ?

1. Write program to implement LinkedList of ArrayLists so that The inner ArrayList contains three elemnts
   * 1. String name;
     2. Int roolno
     3. Double CGPA

Using ListIterator navigate with in the ArrayList print both in forward direction and reverse direction ?

1. Write program to implement Stack and implement all the methods of stack.
   1. Empty()
   2. Peek()
   3. Pop()
   4. Push(item)
   5. Serch(object o)

Write a program to implement Vector and implement all the methods?

* 1. Add()
  2. addAll()
  3. addElement()
  4. capacity()
  5. clear()
  6. get()
  7. firstElement()
  8. lastElement()

1. Write a program to implement Treeset using Comparable interface and print 10 names from A-Z order(Ascending order).

Write a program to implement Treeset using Comparator interface and print 10 names from Z-A order (Descending order).

1. Write a program to implement TreeMap and implement the map in such a way the key values suppose to be Strings and values will be another Map implement like generic such a way TreeMap<key<String>,value<TreeMap>>(give name as key value and print empid and address as value )

Write a program to implement HashMap by taking (key,value) pairs and apply some methods on it.

1. Write a program to implement database connection and create a table and insert the values.(All data base program take student table insert roolno, name, cgpa, address(one location name ex: hyderabad),year of admission for ten students.)
2. Write a program to implement database connection and create a table and insert the values and update any columns and print the no of column updated.

(All data base program take student table insert roolno, name, cgpa,address(one location name ex: hyderabad),year of admission for ten students.)

1. Write a program to implement database connection and create a table and insert the static values and extract the values statically.

(All data base program take student table insert roolno,name,cgpa,address(one location name ex: hyderabad),year of admission for ten students.)

1. Write a program to implement database connection and create a table and insert the values dynamically and accept from value also from keyboard and extract values also dynamically.

(All data base program take student table insert roolno,name,cgpa,address(one location name ex: hyderabad),year of admission for ten students.)

1. Write a program to crate files using both inputStream and OutPutStream and write the data in it using Writer class ?

Write a program to copy data from one file to another fiile ?(both file should be with different names)

1. Write a program to implement ActionListener and create login page with username and password and submit button when submission done an username table will be crated in the data base and username and password supposed to be verified.