Task 2

1.What is encapsulation?

Encapsulation is the process of providing control access to the private members present in a class by creating public setters and getters

2.How are arraylists are different from array?

ArrayList internally makes use of the array data structure .Arraylist demands contiguous memory location .It cannot make use dispersed memory location on the RAM.In arraylist order of insertion is preserved

3.How to sort an ArrayList?

Sort an array ArrayList using the Collection.sort(List)-for ascending order. Descending order - Collection.sort(List,Collections.reverseOrder()).

4.What is constructor overloading ?

Constructor overloading means having multiple methods having same but different parameters lists.

5.How does garbage collection work in java?

Garbage Collection is the automatic process of reclaiming memory by removing unused objects from the heap. The JVM’s Garbage collector finds the objects with no live references and the frees that memory.

6.What do we use getters and setters?

We should not prevent the complete access for the private variables.Rather we control access to the private variables. Control access to the variable can be provided with the help of setters and getters .Setters is a methods to update the private variables.Getters is a method to read private variables.

7.What is a Static variable?

Statis variable can be declared using “static” keyword .static variable will be allocated memory in the method area.it will be recognized and initializes at the time of .clss file loading on to the method area .This means even before main()execution begins ,ststic variable will be automatically initialized to default values.

8.What is final keyword?

Final can be used for make the variable constant ,method cannot be overridden and then class cannot be inherited

9.Difference between compile time error and run time error?

Compile time error is found during compilation ,syntax and semantics mistakes eg: semicolon missing

Runtime error occurs during execution , such as logic errors ,exception eg:NullpointerException

10.What are access modifiers?

Private-only we can access within the class.

Public- from anywhere we can access the irrespective of package.

Protected-access only within the package .If you want access from another package you should maintain the parent child relation

Default-It is access within the package .It is a package access.