Java 8 Features Part -1 Assignment

Q1) Write the following a functional interface and implement it using lambda:

- To check whether the first number is greater than second number or not, Parameter (int , int) Return type boolean
- Increment the number by 1 and return incremented value Parameter (int) Return int
- Concatenation of 2 string Parameter (String, String) Return (String)
- Convert a string to uppercase and return Parameter (String) Return (String)

```
public class Functional {
       Concatenate func=(a,b)->(a.concat(b));
       Uppercase fun=(a) -> (a.toUpperCase());
```

```
public interface Uppercase {
    String Changecase(String str);
}

@FunctionalInterface
public interface MyInterface {
    boolean greater(int n,int m);
}

@FunctionalInterface
public interface Interf {
    int incrementbyone(int a);
}

@FunctionalInterface
public interface Concatenate {
    String Concatena(String a, String b);
}
```

```
Run: Main × Functional ×

/home/shreya/.jdks/openjdk-19.0.2/bin/java -javaagent:/snap/intellij-idea-community/40

true
35
abcdef
ABCDS

Process finished with exit code 0
```

Q2) Using (instance) Method reference create and apply add and subtract method and using (Static) Method reference create and apply multiplication method for the functional interface created

```
public class Second {
public int adder( int a,int b) {
   int res;
```

```
res=a+b;
public static int multiply(int a,int b) {
   result=a*b;
   System.out.println(adder.operate(12,13));
@FunctionalInterface
```

Q3) Implement multiple inheritance with default method inside interface.

```
public interface Parent {
  default void display() {
  default void display() {
  default void display() {
```

```
public void display() {
     Childthree three= new Childthree();
Run: 🖃 Childthree
       /home/shreya/.jdks/openjdk-19.0.2/bin/java -javaagent:/snap/intellij-idea-community/409/l
this is parent interface
      this is the child one interface
      this is parent interface
       this is the child two interface
  🖶 this is the child three class.
==
```

Q4) Write a program to implement constructor reference

```
@FunctionalInterface
public interface DemoInterface {
    User getUser(String name);
}
public class User {
    String userName;
    public User(String userName) {
```

```
this.userName=userName;
}
```