Assignment - Java 8 Features - 1

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

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

```
package Java_8_1.q1;

### SpunctionalInterface lusage
| Interface Greater {
| Interface Interfac
```

```
Increase i = ( int a) -> a++;
System.out.println("Value Incremented by 1 : "+ i.increase( a: 10));

System.out.println("\n\n");

Concatinate c = ( String a, String b) -> a + b;
System.out.println("Concatinated Strings : " + c.concatinate( a: "a", b: "b"));

System.out.println("\n\n");

UpperCase u = ( String s) -> s.toUpperCase();
System.out.println("UpperCase : " +u.upperCase( s: "akash"));

}
}
```

```
/usr/lib/jvm/java-1.21.0-openjdk-amd64/bin/java -javaagent:/home/akash/Downloads/idea-IU-251.26094.121/lib/idea_rt.jar=41839 -Dfile.encoding=UTF-8
A is greater than B

Value Incremented by 1 : 10

Concatinated Strings : ab

UpperCase : AKASH

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

```
package Java_8_1.02;
Interface Operator{
    class Calculator { 3 usages
      public int add(int a,int b){    1usage
          return a-b;
            Operator add = c ::add;
            System.out.println("On Subtract : " + sub.apply( a: 10, b: 5));
            System.out.println("\n\n");
            System.out.println("Static Method Reference");
```

```
Instance Method Reference
On Adding: 15
On Subtract: 5

Static Method Reference
On Multiplication: 50

Process finished with exit code 0
```

Q3)Implement multiple inheritance with default method inside interface.

```
/usr/lib/jvm/java-1.21.0-openjdk-amdo4/bin/java -javaagent:/home/akasn/Downloads/idea-10-251.26094.123
Child of child
Process finished with exit code \theta
```

Q4)Write a program to implement constructor reference

```
package Java_8_1.Q4;
interface ConstRefernce {
     A getA(String name, int age); 1usage
   A a = refernce.getA( name: "A", age: 18);
```

```
/usr/lib/jvm/java-1.21.0-openjdk-amd64/bin/java -javaagent:/home/akash/Downloads/idea-IU-251.26094.121/lib/idea_rt.jar=39429
name : A age : 18

Process finished with exit code 0
```