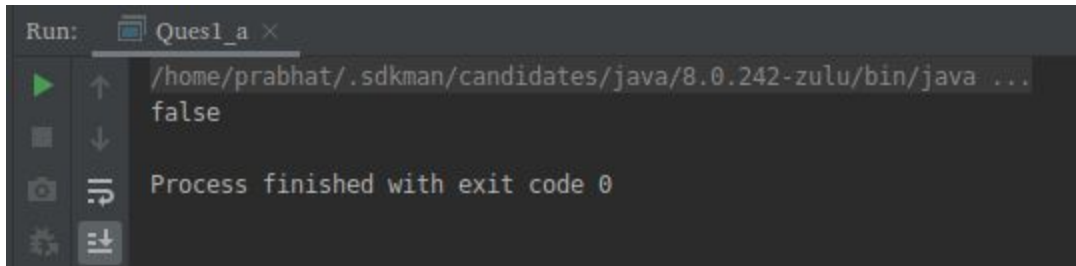


1. *Write the following a functional interface and implement it using lambda:
- (1) First number is greater than second number or not Parameter (int ,int)
Return boolean

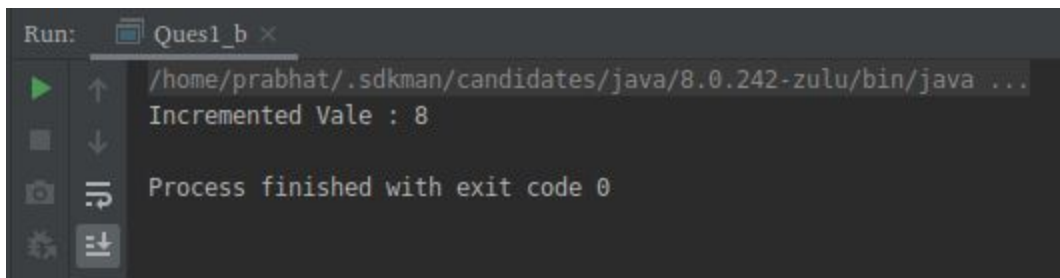
(Ques1_a.java)



```
Run: Ques1_a x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
false
Process finished with exit code 0
```

- (2) Increment the number by 1 and return incremented value Parameter (int)
Return int

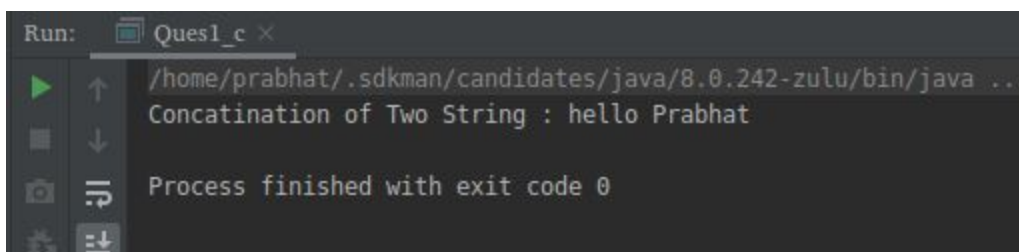
(Ques1_b.java)



```
Run: Ques1_b x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Incremented Vale : 8
Process finished with exit code 0
```

- (3) Concatenation of 2 string Parameter (String ,
String) Return (String)

(Ques1_c.java)



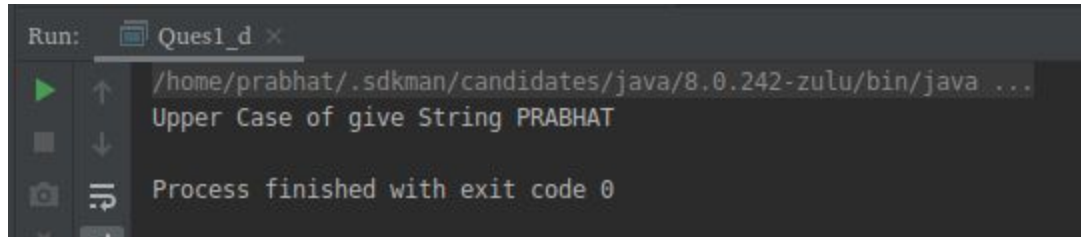
```
Run: Ques1_c x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Concatination of Two String : hello Prabhat
Process finished with exit code 0
```

-
-

- (4) Convert a string to uppercase and return .
Return (String)

Parameter (String)

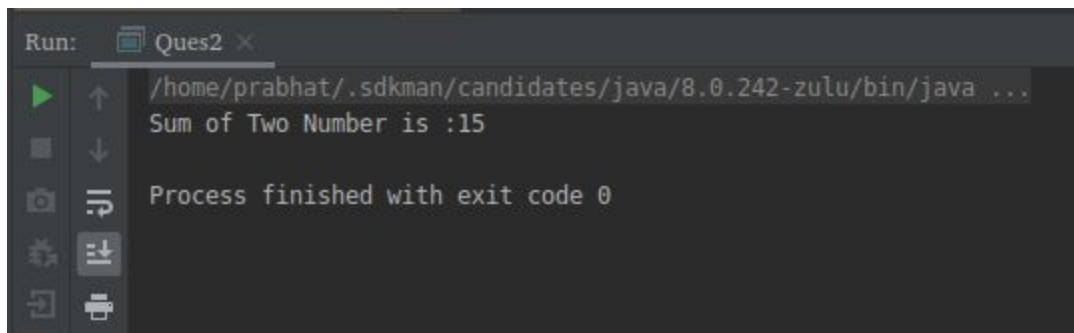
(Ques1_d.java)



```
Run: Ques1_d x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Upper Case of give String PRABHAT
Process finished with exit code 0
```

2. *Create a functional interface whose method takes 2 integers and return one integer.

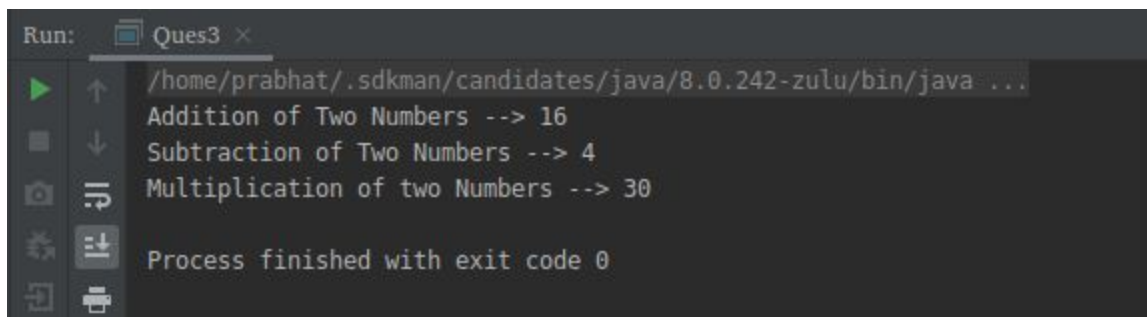
(Ques2.java)



```
Run: Ques2 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Sum of Two Number is :15
Process finished with exit code 0
```

3. *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.

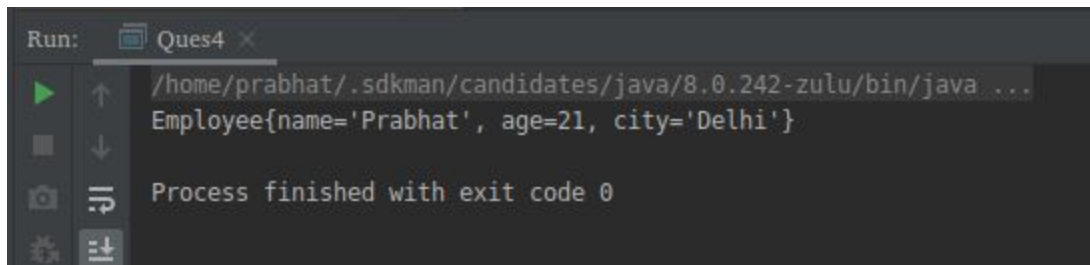
(Ques3.java)



```
Run: Ques3 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Addition of Two Numbers --> 16
Subtraction of Two Numbers --> 4
Multiplication of two Numbers --> 30
Process finished with exit code 0
```

4. *Create an Employee Class with instance variables (String) name, (Integer)age, (String)city and get the instance of the Class using constructor reference

(Ques4.java)

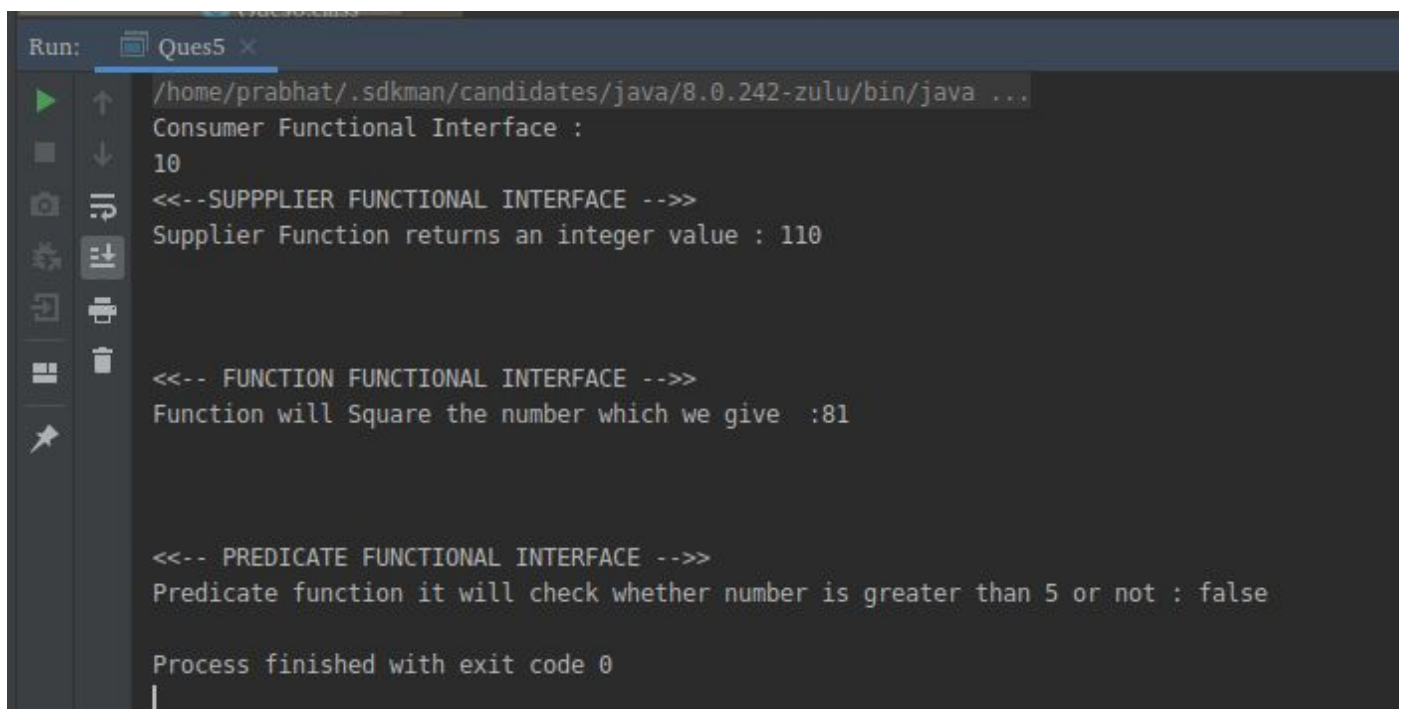


```
Run: Ques4 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Employee{name='Prabhat', age=21, city='Delhi'}
Process finished with exit code 0
```

5. *Implement following functional interfaces from java.util.function using lambdas:

- (1) Consumer
- (2) Supplier
- (3) Predicate
- (4) Function

(Ques5.java)



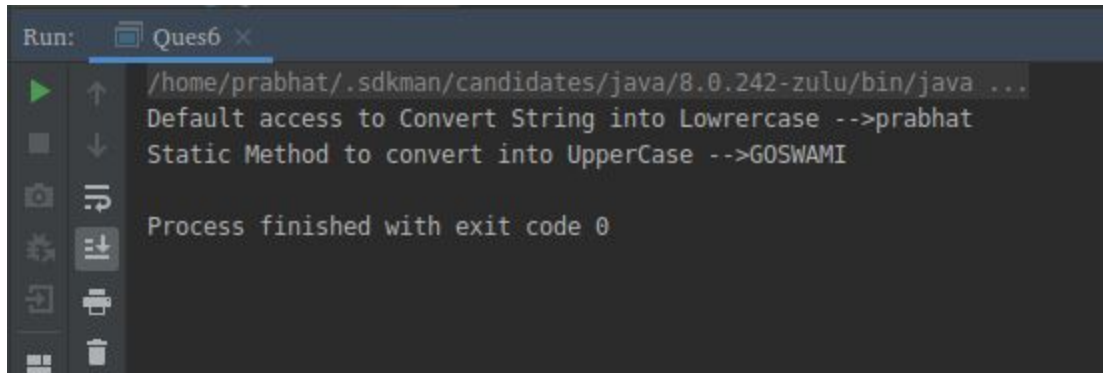
```
Run: Ques5 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Consumer Functional Interface :
10
<<--SUPPLIER FUNCTIONAL INTERFACE -->>
Supplier Function returns an integer value : 110

<<-- FUNCTION FUNCTIONAL INTERFACE -->>
Function will Square the number which we give : 81

<<-- PREDICATE FUNCTIONAL INTERFACE -->>
Predicate function it will check whether number is greater than 5 or not : false
Process finished with exit code 0
```

6. *Create and access default and static method of an interface.

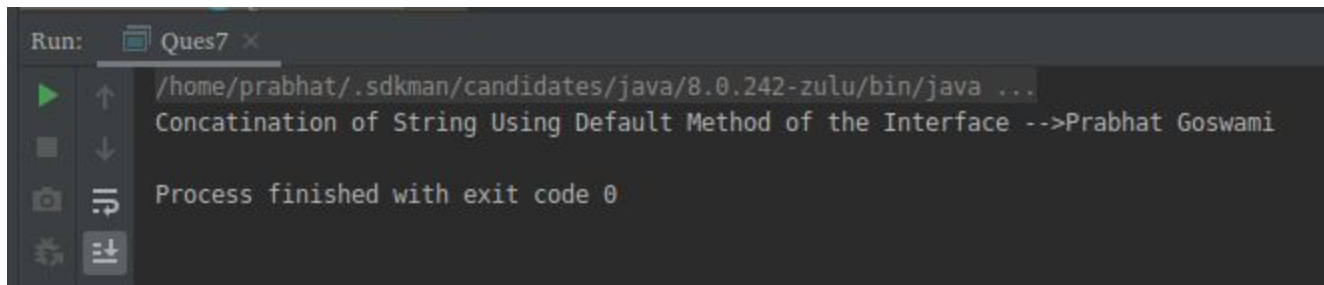
(Ques6.java)



```
Run: Ques6 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Default access to Convert String into Lowrercase -->prabhat
Static Method to convert into UpperCase -->GOSWAMI
Process finished with exit code 0
```

7. *Override the default method of the interface.

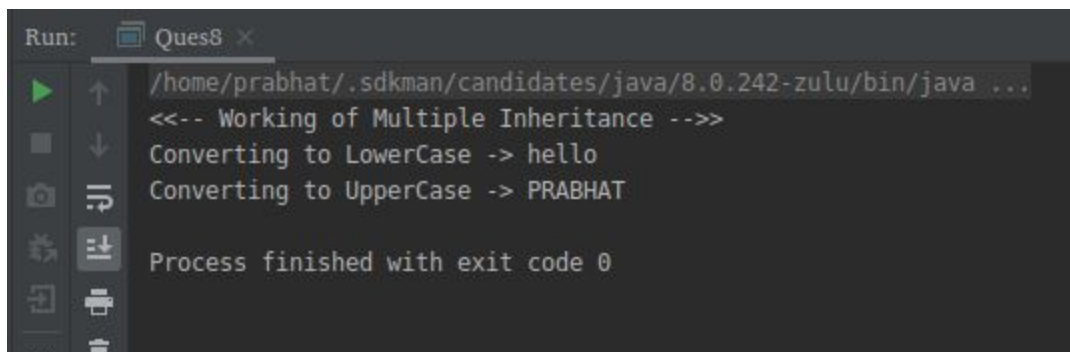
(Ques7.java)



```
Run: Ques7 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Concatination of String Using Default Method of the Interface -->Prabhat Goswami
Process finished with exit code 0
```

8. *Implement multiple inheritance with default method inside interface.

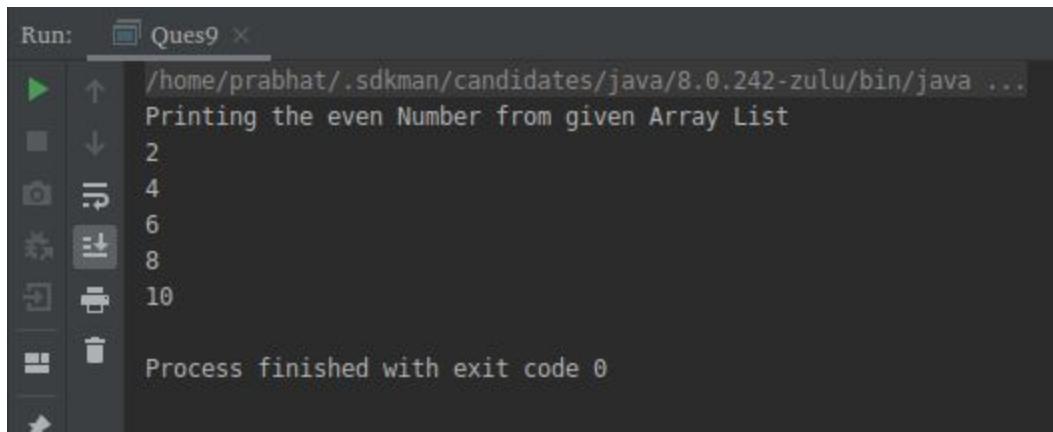
(Ques8.java)



```
Run: Ques8 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
<<-- Working of Multiple Inheritance -->>
Converting to LowerCase -> hello
Converting to UpperCase -> PRABHAT
Process finished with exit code 0
```

9. *Collect all the even numbers from an integer list.

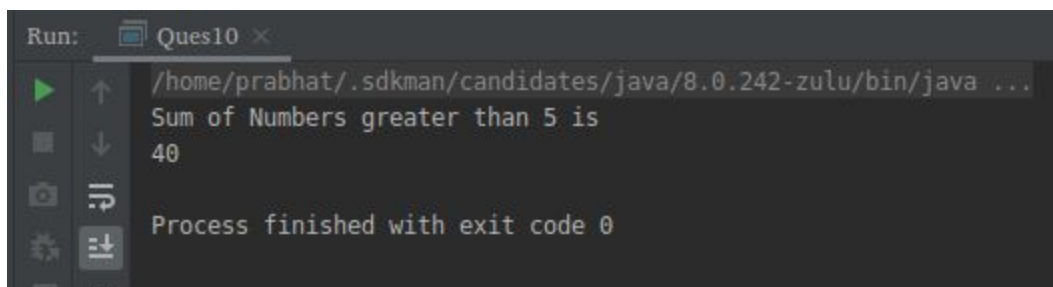
(Ques9.java)



```
Run: Ques9 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Printing the even Number from given Array List
2
4
6
8
10
Process finished with exit code 0
```

10. *Sum all the numbers greater than 5 in the integer list.

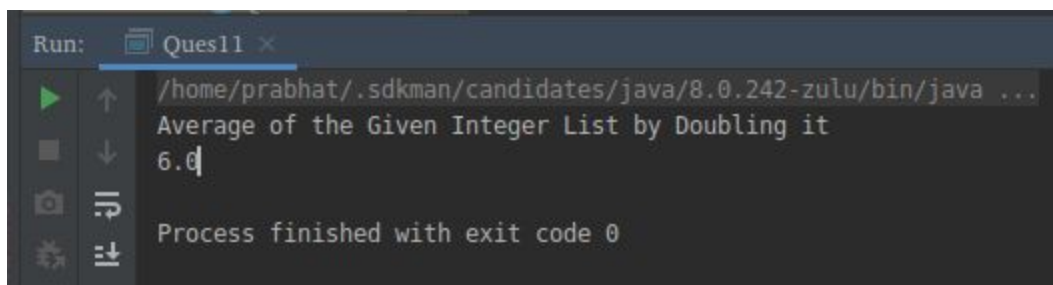
(Ques10.java)



```
Run: Ques10 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Sum of Numbers greater than 5 is
40
Process finished with exit code 0
```

11. *Find average of the number inside integer list after doubling it.

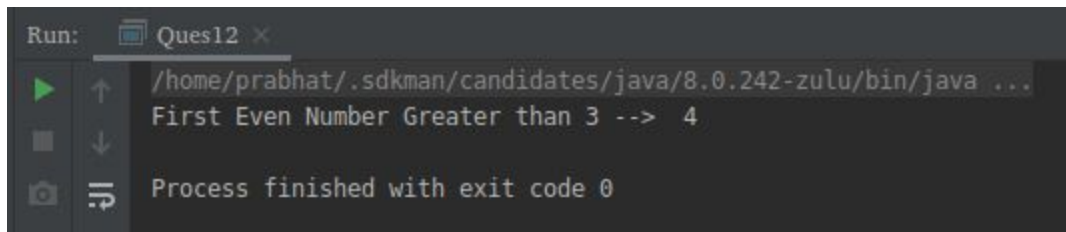
(Ques11.java)



```
Run: Ques11 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
Average of the Given Integer List by Doubling it
6.0
Process finished with exit code 0
```

12. *Find the first even number in the integer list which is greater than 3.

(Ques13.java)



```
Run: Ques12 x
/home/prabhat/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
First Even Number Greater than 3 --> 4
Process finished with exit code 0
```