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# JAVA PROGRAMMING ZERO TO HERO

DAY 3 ASSIGNMENT (15.08.2021)

## ASSIGNMENT ON MINI PROJECT OF CALCULATING FARE OF TRAVELLING CAB:

### PROGRAM:

```
import java.util.Scanner; //Since getting input from terminal
Class Cab
{
    int fare;
    int d;
    public Cab()
    {
        fare = 50; //Default cab charge
    }
    public Cab(int fare)
    {
        this.fare=fare; //we should indicate data member, since
                        variable and data member are having same name
    }
}
Class RideCab
{
    public static void main(String[] args)
    int cd; //distance of the cab from user
    Scanner scanner = new Scanner(System.in);
    System.out.println("Enter the distance of the cab from user");
    cd = sc.nextInt; //Telling computer that to wait for the input on
                    the terminal
}
```

```

if(cd>5)
{
    Cab.ob = new Cab(50+10*(cd-5); //if below 5km
    System.out.println("Enter the distance travelled");
    ob.d=sc.nextInt();
    ob.fare+=10*ob.d;
    System.out.println("Total fare: Rs." +ob.fare);
}
else
{
    Cab ob = new Cab(); //if above 5km
    System.out.println("Enter the distance travelled:");
    ob d = sc.nextInt();
    ob.fare += 10*ob.d;
    System.out.println("Total fare: Rs." + ob.fare);
}
}
}
}

```

### OUTPUT:

#### Case 1: //distance below 5km

Enter the distance of the cab from user: 4  
Enter the distance travelled: 6  
Total fare = Rs.110

#### Case 2: //distance above 5km

Enter the distance of the cab from user: 8  
Enter the distance travelled: 6  
Total fare = Rs.140

## **THE DIFFERENCE BETWEEN FINAL VS FINALLY VS FINALIZE:**

Sr. no.	Key	final	finally	finalize
1.	Definition	final is the keyword and access modifier which is used to apply restrictions on a class, method or variable.	finally is the block in Java Exception Handling to execute the important code whether the exception occurs or not.	finalize is the method in Java which is used to perform clean up processing just before object is garbage collected.
2.	Applicable to	Final keyword is used with the classes, methods and variables.	Finally block is always related to the try and catch block in exception handling.	finalize() method is used with the objects.
3.	Functionality	(1) Once declared, final variable becomes constant and cannot be modified. (2) final method cannot be overridden by sub class. (3) final class cannot be inherited.	(1) finally block runs the important code even if exception occurs or not. (2) finally block cleans up all the resources used in try block	finalize method performs the cleaning activities with respect to the object before its destruction.
4.	Execution	Final method is executed only when we call it.	Finally block is executed as soon as the try-catch block is executed.  It's execution is not dependant on the exception.	finalize method is executed just before the object is destroyed.

ASSIGNMENT SUBMISSION DATE : 18.08.2021 (10.00Pm)

Thank you for your classes sir. We learned something new and interesting.  
Thanks and regards!