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# KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

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### WT LAB -12

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## Q1.java

// 1. Define two packages as - General and Marketing. In General package define a class ,employee" with data members as empid(protected), ename(private) and a public method as earnings() which calculate total earnings → basic +DA (80% of basic) + HRA (15% of basic)

// In Marketing package define a class ,sales" which is extending from employee" class and has a method tallowance() which calculates Travelling Allowance as 5% of total earning. Write the programs to find out total earning of a sales person for the given basic salary amount and print along with the emp id.

```
import java.util.Scanner;
import marketing.*;
public class q1 {
    public static void main(String[] args) {
```

```
Scanner scan = new Scanner(System.in);
System.out.println("Enter employee name");
String name = scan.next();
System.out.println("Enter empid");
int id = scan.nextInt();
System.out.println("Enter basic salary");
int basic = scan.nextInt();
sales s = new sales(name, id);
s.printdetails();
System.out.println("Earnings");
System.out.println(s.earnings(basic));
System.out.println("Travel allowance");
System.out.println(s.tallowance(basic));
scan.close();
}
```

# Sales.java

```
package marketing;
import general.*;

public class sales extends Employee {
    public sales(String name, int id) {
        super(name, id);
    }

    public double tallowance(int basic) {
        double earn = this.earnings(basic);
        double t = 0.05 * earn;
        return t;
    }
}
```

## Employee.java

```
package general;
public class Employee {
   protected int empid;
   private String ename;
```

```
public Employee(String name, int id) {
    ename = name;
    empid = id;
}

public double earnings(int basic) {
    double earn = basic + (0.8 * basic) + (0.15 * basic);
    return earn;
}

public void printdetails() {
    System.out.println("Employee name");
    System.out.println(ename);
    System.out.println("Employee id");
    System.out.println(empid);
}
```

#### OUTPUT-1

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS D:\my codes\web tech lab\lab12_package> cd "d:\my codes\web tech lab\lab12_package\" ; if ($?) { javac q1.java } ; if ($?) { java q1 }
Enter employee name
vikashdalmia
Enter empid
3213
Enter basic salary
20000
Employee name
vikashdalmia
Employee id
3213
Earnings
39000.0
Travel allowance
PS D:\my codes\web tech lab\lab12_package>
```

```
^{\prime}/ 2. Write a program to perform following operations on user entered strings -
// i) Change the case of the string
// ii) Reverse the string
// iii) Compare two strings
// iv) Insert one string into another string
import java.util.*;
class q2 {
   public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
       String s;
       System.out.println("Enter a string");
        s = sc.nextLine();
       String s2 = "";
       for (int i = 0; i < s.length(); i++) {</pre>
            char ch = s.charAt(i);
           int t = ch;
           if (t >= 65 && t <= 90)
                ch = (char) (t + 32);
            else if (t >= 97 && ch <= 122)
                ch = (char) (t - 32);
            s2 += ch;
       System.out.println("The string after changing the case is " + s2);
        s2 = "";
       for (int i = s.length() - 1; i >= 0; i--)
            s2 += s.charAt(i);
       System.out.println("The string after reversing is " + s2);
        String s3;
       System.out.println("Enter the second string for comparison");
        s3 = sc.nextLine();
       System.out.println("The difference between ASCII value is " +
                s.compareTo(s3));
       System.out.println("Enter the string to be inserted into first string");
        s3 = sc.nextLine();
       System.out.println("The two strings after insertion is " + (s + s3));
       sc.close();
   }
```

## OUTPUT -2

```
DEBUG CONSOLE TERMINAL
Windows PowerShell
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PS D:\my codes\web tech lab\lab12_package> cd "d:\my codes\web tech lab\lab12_package\" ; if ($?) { javac q2.java } ; if ($?) { javac q2 }
Enter a string
hitu
The string after changing the case is HITU
The string after reversing is utih
Enter the second string for comparison
The difference between ASCII value is -10
Enter the string to be inserted into first string
raj
The two strings after insertion is hituraj
PS D:\my codes\web tech lab\lab12_package>
```

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