

Experiment 9:

Task 1:

Code:

```
package Employee;

import java.util.*;

class employee
{
    int Emp_id;
    String Emp_name;
    int Emp_salary;

    employee (int empid, String empname, int empsalary)
    {
        Emp_id = empid;
        Emp_name = empname;
        Emp_salary = empsalary;
    }

    void display() {
        System.out.println("ID: "+this.Emp_id + " Name: "+this.Emp_name + "
Salary:" + this.Emp_salary);
    }

    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the ID, Name and Salary of Employee:");

        int Emp_id = sc.nextInt();

        String Emp_name = sc.next();

        int Emp_salary = sc.nextInt();

        employee e = new employee (Emp_id, Emp_name, Emp_salary);

        System.out.println("Employee Details: \n-----");

        e.display();
    }
}
```

```
}
```

Output:

```
run:
Enter the ID, Name and Salary of Employee:
50
champa
68
Employee Details:
-----
ID: 50 Name: champa Salary:68
BUILD SUCCESSFUL (total time: 9 seconds)
```

Task 2:

Code:

```
package Area;

import java.util.Scanner;

class shape
{
    int l,b,area;

    shape(int m)
    {
        l=m;
        area=l*l;
    }

    shape(int x,int y)
    {
        l=x;
        b=y;
        area=l*b;
    }

    void display()
    {
        System.out.println("Area = "+area);
    }
}
```

```
public static void main(String args[])
{
Scanner sc = new Scanner(System.in);
System.out.println("Enter the side of the square:");
int s;
s=sc.nextInt();
shape s1=new shape(s);
s1.display();
System.out.println("Enter the side of the rectangle:");
int l,b;
l=sc.nextInt();
b=sc.nextInt();
shape s2=new shape(l,b);
s2.display();
}
}
```

Output:

```
run:
Enter the side of the square:
9
Area = 81
Enter the side of the rectangle:
5
9
Area = 45
BUILD SUCCESSFUL (total time: 11 seconds)
```

Shopping Bill:

```
Package SHOPPNCBILL;
```

```
import java.util.*;
```

```
import java.text.SimpleDateFormat;
```

```
class Product
```

```
{
```

```
int quantity;
```

```
double rate,product_total;
```

```
String name,id;
```

```
Product()
```

```
{
```

```
this.id="000";
```

```
this.name="";
```

```
this.rate=0.0;
```

```
this.product_total=0.0;
```

```
this.quantity=0;
```

```
}
```

```
Product(String id2, String name2, double rate2,int quantity2,double product_total2)
```

```
{
```

```
id=id2;
```

```
name=name2;
```

```
rate=rate2;
```

```
product_total=product_total2;
```

```
quantity=quantity2;
```

```
}
```

```
void displayHeader()
```

```
{
```

```
System.out.println("\t\t\t\tOne Stop");
```

```
System.out.println("-----");
```

```

System.out.println("ID\t\tName\t\tRate\t\tQuantity\t\tTotal");
System.out.println("-----");
}
void displayProd()
{
System.out.println(id+"\t\t"+name+"\t\t"+rate+"\t\t"+quantity+"\t\t"+product_total);
}
}

public class ShoppingBill
{
public static void main(String args[])
{
Scanner sc = new Scanner(System.in);
Product p = new Product();
Date date=new Date();
ArrayList<Product>prod = new ArrayList<Product>();
SimpleDateFormat formatter = new
SimpleDateFormat("dd/MM/yyyy HH:mm:ss");
System.out.println("Enter the products :");
char ch='Y';
int quantity;
double rate,product_total,total=0;
String name,id;
while(ch=='Y' || ch=='y')
{
System.out.println("Enter the ID of the product:");
id=sc.next();
System.out.println("Enter the Name of the product:");
name=sc.next();
System.out.println("Enter the Price of the product :");
rate=sc.nextDouble();

```

```

System.out.println("Enter the Quantity of the product :");
quantity=sc.nextInt();
product_total=rate*quantity;
prod.add(new Product(id,name,rate,quantity,product_total));
total+=product_total;
System.out.println("Do you want to continue?\nEnter Y for yes\n for no");
ch=sc.next().charAt(0);
}

System.out.println("\t\t\t\t\tDate:"+formatter.format(date));
System.out.println("-----");
double discount=0.1*total;
System.out.println("\t\t\t\t\tFinal Bill");
System.out.println("-----");
p.displayHeader();
for(Product pr:prod)
{
pr.displayProd();
}

System.out.println("\t\t\t\t\t-----");
System.out.println("\t\t\t\t\tTotal:"+total+"\n\t\t\t\t\t-----"
+" \n\t\t\t\t\tDiscount :"+discount);

System.out.println("\t\t\t\t\t-----");
double gst=0.12*total;
total=(total+gst)-discount;

System.out.println("\t\t\t\t\tGST:"+gst+"\n\t\t\t\t\t-----"
+" \n\t\t\t\t\tTotal:"+total);
}
}

```

Output:

46

Enter the Quantity of the product :

7

Do you want to continue?

Enter Y for yes

N for no

Y

Enter the ID of the product:

67

Enter the Name of the product:

comb

Enter the Price of the product :

69

Enter the Quantity of the product :

5

Do you want to continue?

Enter Y for yes

N for no

n

Date:12/10/2022 15:43:00

Final Bill

One Stop

ID	Name	Rate	Quantity	Total
23	biscuit	46.0	7	322.0
67	comb	69.0	5	345.0

Total:667.0

Discount :66.7

GST:80.03999999999999

Total:680.3399999999999

BUILD SUCCESSFUL (total time: 54 seconds)