Name – Kartik Kumar

Reg ID- 12105968

Test Name- Test Vagrant

Email ID – IKARTIK1109@GMAIL.COM

```java
import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.time.LocalDate;

import java.time.LocalTime;

import java.time.OffsetDateTime;

import java.time.ZoneId;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.Collections;

import java.util.HashMap;

import java.util.HashSet;

import java.util.List;


public class Main {



public static void main(String[] arg) throws IOException
{


        double amount= 0;

        double maxGST =Integer.MIN_VALUE;

        Item maxGstItem = null;


        Item item1= new Item(  "Leather wallet",  1,  18,1100) ;
```

```java
Item item2 = new Item( "Umbrella",  2, 12,  900) ;

Item item3 = new Item ( "Cigeratte",  3,  28, 200) ;

Item item4 = new Item(  "Honey",  4, 0, 100) ;

List<Item> listofItems = new ArrayList<>();

listofItems.add (item1) ;

listofItems.add(item2);

listofItems.add (item3) ;

listofItems.add(item4);

ShoppingCart shoppingCart = new ShoppingCart (listofItems) ;



for (Item item: shoppingCart.itemList)

{

double cost       = item.getPrice()*item.getQuantity()+item.getGst();

if(item.getPrice()>500)

        cost= cost*0.95;

amount += cost;

if(item.getGst ()>maxGST)

{

maxGST = item.getGst () ;

maxGstItem = item;

}

}

System.out.println("Total amount to be paid:" + amount) ;

System.out.println("Maximum gst is paid for item :" + maxGstItem.getName()) ;
```

```java
            }
    }
    class Item{
            public Item(String name, int quantity, float gstRate, float price) {
                    super();
                    this.name = name;
                    this.quantity = quantity;
                    this.price = price;
                    this.gst = (price*quantity)*gstRate/100;
            }
            String name;
            int quantity;
            float price;
            float gst;
            public String getName() {
                    return name;
            }
            public int getQuantity() {
                    return quantity;
            }
            public float getPrice() {
                    return price;
            }
            public float getGst() {
                    return gst;
            }
    }


    class ShoppingCart{
            List<Item> itemList = new ArrayList<>();


            public ShoppingCart(List<Item> itemList) {
```

```
            this.itemList = itemList;

        }


    }
```