**Question 1**

public abstract class ThreeDShape  
{  
 private String color;  
   
 public ThreeDShape()  
 {  
 color="";  
 }  
   
 public ThreeDShape(String col)  
 {  
 color=col;  
 }  
   
 public void setColor(String col)  
 {  
 color=col;  
 }  
   
 public String getColor()  
 {  
 return color;  
 }  
   
 public abstract double calcVol();  
   
 public String toString()  
 {  
 return("\n Colour :"+getColor());  
 }  
}

public class Sphere extends ThreeDShape  
{  
 private double radius;  
   
 public Sphere()  
 {  
 radius=0.0;  
 }  
   
 public Sphere(String col,double rad)  
 {  
 super(col);  
 radius=rad;  
 }  
   
 public void setRadius(double rad)  
 {  
 radius=rad;  
 }  
   
 public double getRadius()  
 {  
 return radius;  
 }  
   
 public double calcVol()  
 {  
 double vol;  
 vol=4/3\*3.142\*Math.pow(getRadius(),3);  
 return vol;  
 }  
   
 public String toString()  
 {  
 return(super.toString()+"\nRadius :"+getRadius());  
 }  
   
}

public class Cylinder extends ThreeDShape  
{  
 private double radius,height;  
   
 public Cylinder()  
 {  
 radius=0.0;  
 height=0.0;  
 }  
   
 public Cylinder(String col,double rad,double hei)  
 {  
 super(col);  
 radius=rad;  
 height=hei;  
 }  
   
 public void setRadius(double rad)  
 {  
 radius=rad;  
 }  
   
 public void setHeight(double hei)  
 {  
 height=hei;  
 }  
   
 public double getRadius()  
 {  
 return radius;  
 }  
   
 public double getHeight()  
 {  
 return height;  
 }  
   
 public double calcVol()  
 {  
 double vol;  
 vol=3.142\*Math.pow(getRadius(),2)\*getHeight();  
 return vol;  
 }  
   
 public String toString()  
 {  
 return(super.toString()+"\nRadius :"+getRadius()+"\nHeight :"+getHeight());  
 }  
}

import java.util.Scanner;  
public class ThreeDShapeApp  
{  
 public static void main(String args[])  
 {  
 Scanner scan1=new Scanner(System.in);  
 Scanner scan2=new Scanner(System.in);  
   
 int size=100;  
 ThreeDShape sh[]=new ThreeDShape[size];  
   
 for(int x=0;x<size;x++)  
 {  
 System.out.println("\nEnter Colour :");  
 String color=scan1.nextLine();  
   
 System.out.println("Enter Shape :");  
 String shape=scan1.nextLine();  
 if(shape.equalsIgnoreCase("Cylinder"))  
 {  
 System.out.println("Enter Radius :");  
 double radius=scan2.nextDouble();  
 System.out.println("Enter Height :");  
 double height=scan2.nextDouble();  
  
 sh[x]=new Cylinder(color,radius,height);  
 }  
 else if(shape.equalsIgnoreCase("Sphere"))  
 {  
 System.out.println("Enter Radius :");  
 double radius=scan2.nextDouble();  
 sh[x]=new Sphere(color,radius);  
 }  
 }  
   
 int countS=0,countC=0;  
 double blue=0,red=0,tBlue=0,tRed=0;  
 for(int y=0;y<size;y++)  
 {  
 if(sh[y] instanceof Sphere)  
 {  
 Sphere s=(Sphere)sh[y];  
 System.out.println(s.toString()+"\n");  
 countS++;  
 }  
 else if(sh[y] instanceof Cylinder)  
 {  
 Cylinder c=(Cylinder)sh[y];  
 System.out.println(c.toString()+"\n");  
 countC++;  
 if(sh[y].getColor().equalsIgnoreCase("Blue"))  
 {  
 blue++;  
 tBlue+=sh[y].calcVol();  
 }  
 else if(sh[y].getColor().equalsIgnoreCase("Red"))  
 {  
 red++;  
 tRed+=sh[y].calcVol();  
 }  
 }  
 }  
 System.out.println("\nNumber of Sphere :"+countS);  
 System.out.println("\nNumber of Cylinder :"+countC);  
 System.out.println("Average volume of blue Cylinder :"+(tBlue/blue));  
 System.out.println("Average volume of red Cylinder :"+(tRed/red));  
   
   
   
 }  
}

**I/O Output (Question 1)**

 ----jGRASP exec: java ThreeDShapeApp  
  
Enter Colour :  
RED  
Enter Shape :  
CYLINDER  
Enter Radius :  
5  
Enter Height :  
10  
  
Enter Colour :  
BLUE  
Enter Shape :  
CYLINDER  
Enter Radius :  
4  
Enter Height :  
6  
  
Enter Colour :  
RED  
Enter Shape :  
SPHERE  
Enter Radius :  
2  
  
Enter Colour :  
BLUE  
Enter Shape :  
SPHERE  
Enter Radius :  
6  
  
Enter Colour :  
BLUE  
Enter Shape :  
CYLINDER  
Enter Radius :  
2  
Enter Height :  
5  


  
 Colour :RED  
Radius :5.0  
Height :10.0



  
 Colour :BLUE  
Radius :4.0  
Height :6.0  
  
  
 Colour :RED  
Radius :2.0  
  
  
 Colour :BLUE  
Radius :6.0  
  
  
 Colour :BLUE  
Radius :2.0  
Height :5.0  
  
  
Number of Sphere :2  
  
Number of Cylinder :3  
Average volume of blue Cylinder :182.236  
Average volume of red Cylinder :785.5  
  
 ----jGRASP: operation complete.  


**Question 2**

public abstract class Buyer  
{  
 private String icNumber;  
 private String buyerName;  
 private String carRegNum;  
   
 public Buyer()  
 {  
 icNumber="";  
 buyerName="";  
 carRegNum="";  
 }  
   
 public Buyer(String icNumber,String buyerName, String carRegNum)  
 {  
 this.icNumber = icNumber;  
 this.buyerName = buyerName;  
 this.carRegNum = carRegNum;  
 }  
   
 public void setIcNumber(String icNumber){this.icNumber = icNumber;}  
 public void setBuyerName(String buyerName){this.buyerName = buyerName; }  
 public void setCarRegNum(String carRegNum){this.carRegNum = carRegNum; }  
   
 public String getCarRegNum(){return carRegNum;}  
   
 public abstract double carPrice();  
}

class NewCar extends Buyer  
{  
 private double importDuty;  
 private boolean warehouse;  
 private double priceB4ImportDuty;  
  
 public NewCar()  
 {  
 importDuty = 0.25;  
 warehouse = false;  
 priceB4ImportDuty = 0;  
 }  
   
 public NewCar(String icNumber,String buyerName,String regcarRegNum,double importDuty,boolean warehouse,double priceB4ImportDuty)  
 {  
 super(icNumber,buyerName,regcarRegNum);  
 this.importDuty = importDuty;  
 this.warehouse = warehouse;  
 this.priceB4ImportDuty = priceB4ImportDuty;  
 }  
   
 public double getImportDuty(){return importDuty;}  
 public boolean getWarehouse(){return warehouse;}  
 public double getPriceB4ImportDuty(){return priceB4ImportDuty;}  
   
 public double carPrice()  
 {  
 double p;  
 if(getWarehouse()==true)  
 {   
 p = getPriceB4ImportDuty()+1500+getImportDuty();  
 }  
 else  
 {   
 p = getPriceB4ImportDuty()+getImportDuty();  
 }  
 return p;  
 }  
   
 public void display()  
 {   
 System.out.println("\nNew Car Information : "+"\nImport Duty : "+getImportDuty()+"\nWarehouse : "+getWarehouse()+"\nPrice Before Import Duty : "+getPriceB4ImportDuty()+"\nNew Car Price : "+carPrice());  
 }  
}

class UsedCar extends Buyer  
{  
 private int yearMade;  
 private double depreciation;  
 private double originalCarPrice;  
 private String localImported;  
   
 public UsedCar()  
 {  
 yearMade = 2000;  
 depreciation = 0.05;  
 originalCarPrice = 100000;  
 localImported = "Local";  
 }  
   
 public UsedCar(String icNumber,String buyerName,String regcarRegNum,int yearMade,double depreciation,double originalCarPrice, String localImported)  
 {  
 super(icNumber,buyerName,regcarRegNum);  
 this.yearMade = yearMade;  
 this.depreciation = depreciation;  
 this.originalCarPrice = originalCarPrice;  
 this.localImported = localImported;  
 }  
   
 public int getYearMade(){return yearMade;}  
 public double getDepreciation(){return depreciation;}  
 public double getOriginalCarPrice(){return originalCarPrice;}  
 public String getLocalImported(){return localImported;}  
   
 public double carPrice()  
 {  
 double p;  
 p = getOriginalCarPrice()-(getOriginalCarPrice()\*(2019-getYearMade())\*getDepreciation());  
 return p;  
 }  
   
 public void display()  
 {   
 System.out.println("\nUsed Car Information : "+"\nYear Made : "+getYearMade()+"\nDepreciation : "+getDepreciation()+"\nOriginal Car Price : "+getOriginalCarPrice()+"\nLocal Imported : "+getLocalImported()+"\nUsed Car Price : "+carPrice());  
 }  
}

import java.util.Scanner;  
public class buyerApp  
{  
 public static void main(String args[])  
 {  
 Scanner scan1 = new Scanner(System.in);  
 Scanner scan2 = new Scanner(System.in);  
 boolean warehouse = false;  
   
 int size=5;  
 Buyer[] by = new Buyer[size];  
   
 int count=0;  
 for(int x = 0; x < size; x++)  
 {  
 System.out.print("Enter Name : ");  
 String buyerName = scan1.nextLine();  
 System.out.print("Enter IC Number : ");  
 String icNumber = scan1.nextLine();  
 System.out.print("Enter Car Registration Number : ");  
 String carRegNum = scan1.nextLine();  
 System.out.print("New Car-1 or used Car-2 : ");  
 int type = scan2.nextInt();  
 if(type == 1)  
 {  
 System.out.print("Enter Import Duty : ");  
 double importDuty = scan2.nextDouble();  
 System.out.print("Store in Warehouse? Y or N : ");  
 String choice = scan1.nextLine();  
 if(choice.equalsIgnoreCase("Y"))  
 { warehouse = true;  
 count++;}  
 else if(choice.equalsIgnoreCase("N"))  
 { warehouse = false;}  
   
 System.out.print("Enter Price Before Import Duty : ");  
 double priceB4ImportDuty = scan2.nextDouble();  
   
 by[x] = new NewCar(icNumber,buyerName,carRegNum,importDuty,warehouse,priceB4ImportDuty);  
   
 }  
 else if(type == 2)  
 {  
 System.out.print("Enter Year Made : ");  
 int yearMade = scan2.nextInt();  
 System.out.print("Enter Depreciation of the Car : ");  
 double depreciation = scan2.nextDouble();  
 System.out.print("Enter Original Car Price : ");  
 double originalCarPrice = scan2.nextDouble();  
 System.out.print("Is the Car Local or Imported : ");  
 String localImported = scan1.nextLine();  
 by[x] = new UsedCar(icNumber,buyerName,carRegNum,yearMade,depreciation,originalCarPrice,localImported);  
 }  
 }  
 for(int y = 0; y < size; y++)  
 {  
 if(by[y] instanceof NewCar)  
 {   
 NewCar nc = (NewCar) by[y];  
 nc.carPrice();  
 }  
 if(by[y] instanceof UsedCar)  
 {  
 UsedCar uc = (UsedCar) by[y];  
 uc.carPrice();   
 }   
 }  
 System.out.print("\nTotal Cars Kept In Warehouse : "+count);  
 }  
}

**I/O Output (Question 2)**

 ----jGRASP exec: java buyerApp  
Enter Name : Xi Ling  
Enter IC Number : 110022339922  
Enter Car Registration Number : DAS9211  
New Car-1 or used Car-2 : 1  
Enter Import Duty : 1000  
Store in Warehouse? Y or N : N  
Enter Price Before Import Duty : 600  
Enter Name : Lai Chi  
Enter IC Number : 123321132112  
Enter Car Registration Number : RED2311  
New Car-1 or used Car-2 : 2  
Enter Year Made : 2013  
Enter Depreciation of the Car : 300  
Enter Original Car Price : 10000  
Is the Car Local or Imported : local  
Enter Name : Amri Yah  
Enter IC Number : 13490393020202  
Enter Car Registration Number : WEE9200  
New Car-1 or used Car-2 : 1  
Enter Import Duty : 3000  
Store in Warehouse? Y or N : Y  
Enter Price Before Import Duty : 20000  
Enter Name : Raja  
Enter IC Number : 3938489399329  
Enter Car Registration Number : EED3321  
New Car-1 or used Car-2 : 2  
Enter Year Made : 2017  
Enter Depreciation of the Car : 300  
Enter Original Car Price : 300000  
Is the Car Local or Imported : imported  
Enter Name : Reza  
Enter IC Number : 123454234323  
Enter Car Registration Number : DCV3343  
New Car-1 or used Car-2 : 2  
Enter Year Made : 2011  
Enter Depreciation of the Car : 1000  
Enter Original Car Price : 200000  
Is the Car Local or Imported : local  
  
Total Cars Kept In Warehouse : 1  
 ----jGRASP: operation complete.

**Question 3**

public abstract class Person  
{  
 private String name,empID;  
 private double weight,height;  
   
 public Person(String nm,String id,double w,double h)  
 {  
 name=nm;  
 empID=id;  
 weight=w;  
 height=h;  
 }  
   
 public void setToAll(String nm,String id,double w,double h)  
 {  
 name=nm;  
 empID=id;  
 weight=w;  
 height=h;  
 }  
   
 public String getName(){return name;}  
 public String getEmpID(){return empID;}  
 public double getWeight(){return weight;}  
 public double getHeight(){return height;}  
   
 public abstract double calcIncentives();  
 public abstract double calcBMI();  
   
 public String toString()  
 {  
 return("\nName :"+getName()+"\nEmp ID :"+getEmpID()+"\nWeight :"+getWeight()+"\nHeight :"+getHeight());  
 }  
   
   
   
}

public class Athlete extends Person  
{  
 private int awardLevel;  
   
 public Athlete(String nm,String id,double w,double h,int aw)  
 {  
 super(nm,id,w,h);  
 awardLevel=aw;  
 }  
   
 public void setAwardLevel(int aw)  
 {  
 awardLevel=aw;  
 }  
   
 public int getAwardLevel(){return awardLevel;}  
   
 public double calcIncentives()  
 {  
 double incentives=0;  
 if(getAwardLevel()==1)  
 {  
 incentives=50000;  
 }  
 else if(getAwardLevel()==2)  
 {  
 incentives=300000;  
 }  
 return incentives;  
 }  
   
 public double calcBMI()  
 {  
 double bmi=0;  
 bmi=super.getWeight()/Math.pow(super.getHeight(),2);  
 return bmi;  
 }  
   
 public String toString()  
 {  
 return(super.toString()+"\nAward Level :"+getAwardLevel());  
 }  
}

public class Trainer extends Person  
{  
 private double performance;  
   
 public Trainer(String nm,String id,double w,double h,double per)  
 {  
 super(nm,id,w,h);  
 performance=per;  
 }  
   
 public void setPerformance(double per)  
 {  
 performance=per;  
 }  
   
 public double getPerformance()  
 {return performance;}  
   
 public double calcIncentives()  
 {  
 double incentives=0;  
 if(getPerformance()<80)  
 {  
 incentives=0;  
 }  
 else if(getPerformance()>=80)  
 {  
 incentives=40000;  
 }  
 return incentives;  
 }  
   
 public double calcBMI()  
 {  
 double bmi=0;  
 bmi=super.getWeight()/Math.pow(super.getHeight(),2);  
 return bmi;  
 }  
  
 public String toString()  
 {  
 return(super.toString()+"\nPerformance :"+getPerformance());  
 }  
  
}

import java.util.Scanner;  
public class PersonApp  
{  
 public static void main(String args[])  
 {  
 Scanner scan1=new Scanner(System.in);  
 Scanner scan2=new Scanner(System.in);  
   
 int size=100;  
 Person person[]=new Person[size];  
   
 for(int x=0;x<size;x++)  
 {  
 System.out.println("\nEnter Name :");  
 String name=scan1.nextLine();  
 System.out.println("\nEnter Emp ID :");  
 String empID=scan1.nextLine();  
 System.out.println("\nEnter Weight :");  
 double weight=scan2.nextDouble();  
 System.out.println("\nEnter Height :");  
 double height=scan2.nextDouble();  
   
 System.out.println("\nEnter 1-Athlete or 2-Trainer :");  
 int status=scan2.nextInt();  
   
 if(status==1)  
 {  
 System.out.println("\nEnter Award Level (1-National, 2-International) :");  
 int awardLevel=scan2.nextInt();  
 person[x]=new Athlete(name,empID,weight,height,awardLevel);  
 }  
 else if(status==2)  
 {  
 System.out.println("\nEnter Performance :");  
 double performance=scan2.nextDouble();  
 person[x]=new Trainer(name,empID,weight,height,performance);  
 }  
 }  
   
 int count=0;  
 for(int y=0;y<size;y++)  
 {  
 if(person[y] instanceof Athlete)  
 {   
 Athlete a=(Athlete)person[y];  
 System.out.println("Normal and healthy :");  
 if(person[y].calcBMI()>=18.5 && person[y].calcBMI()<=24.9 )  
 {  
 System.out.println(a.toString());  
 }  
 }  
   
 if(person[y] instanceof Trainer)  
 {  
 Trainer t=(Trainer)person[y];  
 if(t.getPerformance()>=80)  
 {  
 count++;  
 }  
   
 }   
 }  
 System.out.println("\nNumber of highly performed trainer :"+count);  
}}

**I/O Output (Question 3)**

 ----jGRASP exec: java PersonApp  
  
Enter Name :  
AMIN  
  
Enter Emp ID :  
1  
  
Enter Weight :  
68  
  
Enter Height :  
1.72  
  
Enter 1-Athlete or 2-Trainer :  
1  
  
Enter Award Level (1-National, 2-International) :  
1  
  
Enter Name :  
AHMAD  
  
Enter Emp ID :  
2  
  
Enter Weight :  
109  
  
Enter Height :  
1.67  
  
Enter 1-Athlete or 2-Trainer :  
1  
  
Enter Award Level (1-National, 2-International) :  
2  
  
Enter Name :  
SITI  
  
Enter Emp ID :  
3  
  
Enter Weight :  
60  
  
Enter Height :  
1.56  
  
Enter 1-Athlete or 2-Trainer :  
2  
  
Enter Performance :  
80  
  
Enter Name :  
IQBAL  
  
Enter Emp ID :  
4  
  
Enter Weight :  
70  
  
Enter Height :  
1.80  
  
Enter 1-Athlete or 2-Trainer :  
1  
  
Enter Award Level (1-National, 2-International) :  
2  
  
Enter Name :  
AMIR  
  
Enter Emp ID :  
5  
  
Enter Weight :  
80  
  
Enter Height :  
1.80  
  
Enter 1-Athlete or 2-Trainer :  
2  
  
Enter Performance :  
60

Normal and healthy :  
  
Name :AMIN  
Emp ID :1  
Weight :68.0  
Height :1.72  
Award Level :1  
Normal and healthy :  
Normal and healthy :  
  
Name :IQBAL  
Emp ID :4  
Weight :70.0  
Height :1.8  
Award Level :2  
  
Number of highly performed trainer :1

**Question 4**

public abstract class Package  
{  
 private String custName,custPhone;  
 private double charge;  
   
 public Package(String cName,String cPhone,double chrg)  
 {  
 custName=cName;  
 custPhone=cPhone;  
 charge=chrg;  
 }  
   
 public void setToAll(String cName,String cPhone,double chrg)  
 {  
 custName=cName;  
 custPhone=cPhone;  
 charge=chrg;  
 }  
   
 public String getCustName(){return custName;}  
 public String getCustPhone(){return custPhone;}  
 public double getCharge(){return charge;}  
   
 public abstract double calcPayment();  
   
 public String toString()  
 {  
 return("\nCustomer Name :"+getCustName()+"\nCustomer Phone Num :"+getCustPhone()+"\nCharge :"+getCharge());  
 }  
  
}

public class DineIn extends Package  
{  
 private int coupon;  
   
 public DineIn(String cName,String cPhone,double chrg,int cp)  
 {  
 super(cName,cPhone,chrg);  
 coupon=cp;  
 }  
   
 public void setCoupon(int cp)  
 {  
 coupon=cp;  
 }  
   
 public int getCoupon(){return coupon;}  
   
 public double calcPayment()  
 {  
 double totCharge;  
 totCharge=super.getCharge()-(super.getCharge()\*(getCoupon()/100));  
 return totCharge;  
 }  
   
 public String toString()  
 {  
 return super.toString()+"\nCoupon :"+getCoupon();  
 }  
}

public class TakeAway extends Package  
{  
 private boolean delivery;  
 private int km;  
   
 public TakeAway(String cName,String cPhone,double chrg,boolean del,int k)  
 {  
 super(cName,cPhone,chrg);  
 delivery=del;  
 km=k;  
 }  
   
 public void setToAll(boolean del,int k)  
 {  
 delivery=del;  
 km=k;  
 }  
   
 public boolean getDelivery(){return delivery;}  
 public int getKm(){return km;}  
   
 public double calcPayment()  
 {  
 double totCharge=0;  
 if(getKm()>19)  
 totCharge=super.getCharge()+((getKm()-20)\*1);  
 else  
 totCharge=super.getCharge();  
 return totCharge;  
 }  
   
 public String toString()  
 {  
 return super.toString()+"\nDelivery :"+getDelivery()+"\nKM :"+getKm();  
 }  
  
}

import java.util.Scanner;  
public class PackageApp  
{  
 public static void main(String args[])  
 {  
 Scanner scan1=new Scanner(System.in);  
 Scanner scan2=new Scanner(System.in);  
   
 int size=100;  
 Package pack[]=new Package[size];  
   
 for(int x=0;x<size;x++)  
 {  
 System.out.println("\nEnter Customer Name :");  
 String custName=scan1.nextLine();  
 System.out.println("\nEnter Customer Phone num :");  
 String custPhone=scan1.nextLine();  
 System.out.println("\nEnter Charge :");  
 double charge=scan2.nextDouble();  
   
 System.out.println("\nEnter 1-Dine in or 2-Take away :");  
 int status=scan2.nextInt();  
   
 if(status==1)  
 {  
 System.out.println("\nEnter Coupon :");  
 int coupon=scan1019673637.nextInt();  
 pack[x]=new DineIn(custName,custPhone,charge,coupon);  
 }  
 else if(status==2)  
 {  
 System.out.println("\nTrue - Delivery, False - Self-pickup :");  
 boolean delivery=scan2.nextBoolean();  
 if(delivery==true)  
 {  
 System.out.println("\nEnter KM :");  
 int km=scan2.nextInt();  
 pack[x]=new TakeAway(custName,custPhone,charge,delivery,km);  
 }  
 }  
 }  
   
 double totP=0;  
 int count=0;  
 for(int y=0;y<size;y++)  
 {  
 if(pack[y] instanceof TakeAway)  
 {  
 TakeAway t=(TakeAway)pack[y];  
 if(t.getKm()>20)  
 {  
 totP+=t.calcPayment();  
 }  
 }  
   
 if(pack[y] instanceof DineIn)  
 {  
 DineIn d=(DineIn)pack[y];  
 if(d.calcPayment()>100)  
 {  
 count++;  
 }  
 }  
  
 }  
   
 System.out.println("\nTotal Payment of sales for delivery of 20KM above :"+totP);  
 System.out.println("\nNumber of Dine-in sales above RM100 :"+count);  
}  
}

**I/O Output (Question 4)**

 ----jGRASP exec: java PackageApp  
  
Enter Customer Name :  
Sullyman  
  
Enter Customer Phone num :  
01957667876  
  
Enter Charge :  
30  
  
Enter 1-Dine in or 2-Take away :  
1  
  
Enter Coupon :  
10  
  
Enter Customer Name :  
Ahmed  
  
Enter Customer Phone num :  
0128767871  
  
Enter Charge :  
30  
  
Enter 1-Dine in or 2-Take away :  
2  
  
True - Delivery, False - Self-pickup :  
true  
  
Enter KM :  
40  
  
Enter Customer Name :  
AliMan  
  
Enter Customer Phone num :  
0134939201  
  
Enter Charge :  
10  
  
Enter 1-Dine in or 2-Take away :  
1  
  
Enter Coupon :  
10  




Enter Customer Name :  
Aishah  
  
Enter Customer Phone num :  
0189382919  
  
Enter Charge :  
200  
  
Enter 1-Dine in or 2-Take away :  
1  
  
Enter Coupon :  
10  
  
Enter Customer Name :  
Aiman  
  
Enter Customer Phone num :  
0192737627  
  
Enter Charge :  
50  
  
Enter 1-Dine in or 2-Take away :  
2  
  
True - Delivery, False - Self-pickup :  
true  
  
Enter KM :  
30  
  
Total Payment of sales for delivery of 20KM above :110.0  
  
Number of Dine-in sales above RM100 :1  
  
 ----jGRASP: operation complete.  




**FACULTY OF COMPUTER SCIENCE AND MATHEMATICS**

**CS110**

Lab Assignment 5 – Polymorphism

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PROGRAMME CODE: CS110

COURSE CODE: CSC238

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