**Consider the trunk calls of a telephone exchange. A trunk call can be ordinary, urgent or lightning. The charges depend on the duration and the type of the call. Write a program using the concept of polymorphism in Java to calculate the charges.**

***CODE:***

***import java.io.\*;***

***class call***

***{***

***float dur;***

***String type;***

***float rate()***

***{***

***if(type.equals("urgent"))***

***return 4.5f;***

***else if(type=="lightning")***

***return 3.5f;***

***else***

***return 3f;***

***}***

***}***

***class bill extends call***

***{***

***float amount;***

***DataInputStream in=null;***

***bill()***

***{***

***try***

***{***

***in=new DataInputStream(System.in);***

***}***

***catch(Exception e)***

***{***

***System.out.println(e); }***

***}***

***void read()throws Exception***

***{***

***String s;***

***System.out.println("enter call type(urgent,lightning,ordinary):");***

***type=in.readLine();***

***System.out.println("enter call duration:");***

***s=in.readLine();***

***dur=Float.valueOf(s).floatValue();***

***}***

***void calculate()***

***{***

***if(dur<=1.5)***

***amount=rate()\*dur+1.5f;***

***else if(dur<=3)***

***amount=rate()\*dur+2.5f;***

***else if(dur<=5)***

***amount=rate()\*dur+4.5f;***

***else***

***amount=rate()\*dur+5f;***

***}***

***void print()***

***{***

***System.out.println();***

***System.out.println(" PHONE BILL ");***

***System.out.println();***

***System.out.println(" Call type : "+type);***

***System.out.println(" Duration : "+dur);***

***System.out.println(" CHARGE : "+amount);***

***System.out.println();***

***}***

***}***

***class Main***

***{***

***public static void main(String arg[])throws Exception***

***{***

***bill b=new bill();***

***b.read();***

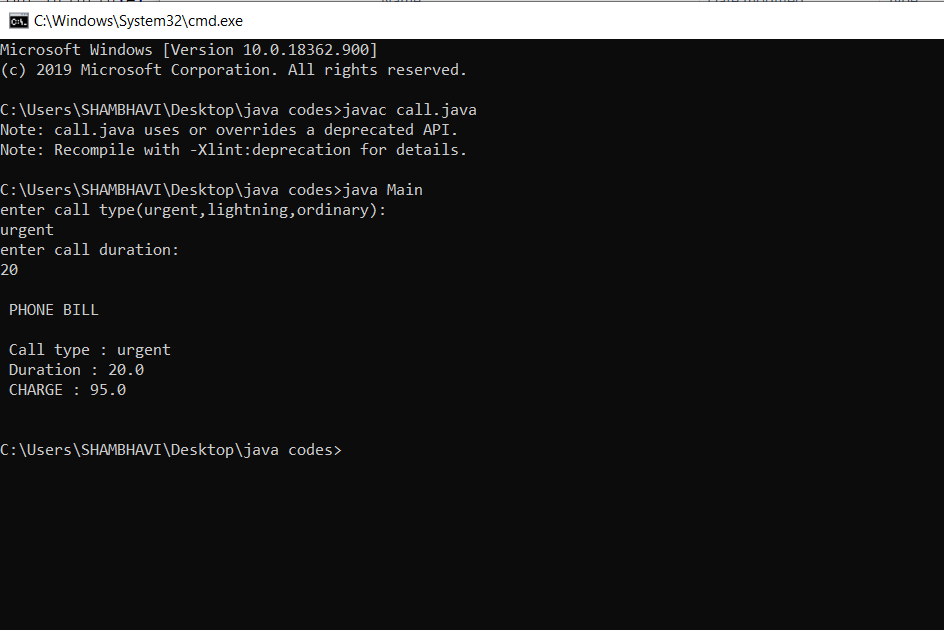
***b.calculate();***

***b.print();***

***}***

***}***

***OUTPUT:***

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