

```

class fullTimeEmployee
{
    private String firstName;
    private String lastName;
    private String emplId;
    private double payRate;
    private double hoursWorked;
    public fullTimeEmployee(String fn, String ln, String id, double rate, double hrs)
    {
        firstName=fn;
        lastName=ln;
        emplId=id;
        payRate=rate;
        hoursWorked=hrs;
    }

    public String getFirstName()
    {
        return firstName;
    }

    public String getLastName()
    {
        return lastName;
    }

    public String getId()
    {
        return emplId;
    }

    public double getPayrate()
    {
        return payRate;
    }

    public double getHrsWork()
    {
        return hoursWorked;
    }

    public double calculatePay()
    {
        return(payRate*hoursWorked);
    }
}

```

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public class casualEmployee extends fullTimeEmployee
{
    private String type;

    public casualEmployee(String firstName, String lastName, String emplId, double
    payRate, double hoursWorked, String t)
    {
        super(firstName, lastName, emplId, payRate, hoursWorked);
        type=t;
    }

    public String getEmpType()
    {
        return "Employment type:\\"+type;
    }
}

```

```

//Name: Chumnap Thach
//Function: Calculate payroll
//Date: 25, may, 2005

import java.io.*;
class test
{
static BufferedReader kb=new BufferedReader(new InputStreamReader(System.in));

=====Main method=====
public static void main(String [] args) throws IOException
{
int num=0; char cont;
do{
do
{
menu();
num = Integer.parseInt(kb.readLine());
switch(num)
{
case 1:
enterDetail();
break;

case 2:
readList();
break;

case 3:
break;
default: System.out.print("out of range..");
}/*end switch
}while(num !=3);/*end do
System.out.print("Are you sure you want to exit? (y/n): ");
String s=kb.readLine();
cont=s.charAt(0);
}while(cont !='y');
}/*end main

=====MENU=====
public static void menu()
{
System.out.println("\n\t-----");
System.out.println("\t\tEMPLOYEE PAY SYSTEM..");
System.out.println("\t-----");
System.out.println();
System.out.println("\t1.\tCalculate employee pay");
System.out.println("\t2.\tPrint employee list");
System.out.println("\t3.\tExit");
}

=====ENTER FULL TIME EMPLOYEE DETAIL=====
public static void enterDetail() throws IOException
{
int fullTimeNo=2;
int casualNo=2;
int noOfEmployee=fullTimeNo+casualNo;
//public double hoursWorked=0;
String []fname= new String[noOfEmployee];
String []lname= new String[noOfEmployee];
String []id= new String[noOfEmployee];
String []type= new String[noOfEmployee];
double []rate= new double[noOfEmployee];
double []hrs=new double[noOfEmployee];
double []pay= new double[noOfEmployee];
}

fullTimeEmployee []fm= new fullTimeEmployee[noOfEmployee];

-----ENTER FULL TIME EMPLOYEE DETAIL-----

System.out.print("Please enter employment type: ");
System.out.print("F" for "full time", 'C' for "Casual\"");
char empType= kb.readLine().charAt(0);
switch(empType)
{
case 'F':
case 'f':
System.out.print("Please enter full time pay rate:\t");
double payRate=Double.parseDouble(kb.readLine());

for(int i=0;i<fullTimeNo;i++)
{
System.out.print(i+". First name:\t");
String firstName=kb.readLine();

System.out.print(i+". Last name:\t");
String lastName=kb.readLine();

System.out.print(i+. Id number :\t");
String emplId=kb.readLine();
System.out.println();

System.out.println("\n\t\tPlease enter hours worked");

System.out.print("\t\tMonday:\t");
double Monday=Double.parseDouble(kb.readLine());

System.out.print("\t\tTuesday:\t");
double Tuesday=Double.parseDouble(kb.readLine());

System.out.print("\t\tWednesday:\t");
double Wednesday=Double.parseDouble(kb.readLine());

System.out.print("\t\tThursday:\t");
double Thursday=Double.parseDouble(kb.readLine());

System.out.print("\t\tFriday:\t");
double Friday=Double.parseDouble(kb.readLine());

double hoursWorked=Monday+Tuesday+Wednesday+Thursday+Friday;
System.out.println("\t\tHours worked:\t"+hoursWorked);

//Constructor
fm[i]=new fullTimeEmployee(firstName, lastName, emplId, payRate, hoursWorked);

System.out.println("You was enter detail as below:");
fullTimeEmployee f= fm[i];
System.out.println(i+. First name:\t"+f.getFirstName());
System.out.println(i+. Last name:\t"+f.getLastName());
System.out.println(i+. Gross pay:\t"+f.calculatePay());

fname[i]=firstName;
lname[i]=lastName;
id[i]=emplId;
type[i]="Full time";
rate[i]=payRate;
hrs[i]=hoursWorked;
pay[i]=payRate*hoursWorked;
}/*end for

=====Read payslip=====
try{
PrintWriter pw=new PrintWriter(new FileWriter("payslip.txt"));
for(int i=0;i<fullTimeNo;i++)
{
pw.print("First name:\t");
pw.println(fname[i]);
pw.print("Last name:\t");
pw.println(lname[i]);
pw.print("Id number:\t");
pw.println(id[i]);
pw.println("Employment type:\t"+type[i]);
pw.println("Pay rate:\t"+rate[i]);
pw.println("Hours Worked:\t"+hrs[i]);
pw.println("Gross pay:\t"+pay[i]);
pw.println(); //seperate each employee
// System.out.print(lname[i]);
}
pw.close();
System.out.println("Payslip has been write to payslip.txt");
}
catch(IOException e)
{
System.out.print("File writing errors");
}
=====Read payslip=====
public static void readList()throws IOException
{
FileReader fr=new FileReader("list.txt");
BufferedReader rf=new BufferedReader(fr);
boolean eof=false;
while(!eof)
{
String line=rf.readLine();
if(line==null)
eof=true;
else
System.out.println(line);
rf.close();
}
}

```

```

//Enter Detail?
}/*end enterDetail?

=====Read payslip=====
public static void readList()throws IOException
{
FileReader fr=new FileReader("list.txt");
BufferedReader rf=new BufferedReader(fr);
boolean eof=false;
while(!eof)
{
String line=rf.readLine();
if(line==null)
eof=true;
else
System.out.println(line);
rf.close();
}
}

```

```

casualEmployee cs=new casualEmployee(firstName, lastName, emplId, payRate, hoursWorked, "Casual");
fm[i]=cs;
casualEmployee c=cs;
System.out.println(c.getEmpType());
System.out.println();
fname[i]=firstName;
lname[i]=lastName;
id[i]=emplId;
type[i]="Casual";
rate[i]=payRate;
hrs[i]=hoursWorked;
pay[i]=payRate*hoursWorked;
}

=====Read payslip=====
try{
PrintWriter p=new PrintWriter(new FileWriter("payslip.txt"));
for(int i=fullTimeNo;i<fm.length;i++)
{
p.print("First name:\t");
p.println(fname[i]);
p.print("Last name:\t");
p.println(lname[i]);
p.print("Id number:\t");
p.println(id[i]);
p.println("Employment type:\t"+type[i]);
p.println("Pay rate:\t"+rate[i]);
p.println("Hours Worked:\t"+hrs[i]);
p.println("Gross pay:\t"+pay[i]);
p.println(); //separate each employee
// System.out.print(lname[i]);
}
p.close();
System.out.println("Payslip has been write to payslip.txt");
}
catch(IOException e)
{
System.out.print("File writing errors");
}
=====Read payslip=====
PrintWriter p2=new PrintWriter(new FileWriter("list.txt"));
for(int i=fullTimeNo;i<fm.length;i++)
{
p2.print(fname[i]);
p2.print("\t");
p2.println(lname[i]);
}
p2.close();
}
break;
default: System.out.print("Please enter C or F");
}
}

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}/*end enterDetail?

=====Read payslip=====
public static void readList()throws IOException
{
FileReader fr=new FileReader("list.txt");
BufferedReader rf=new BufferedReader(fr);
boolean eof=false;
while(!eof)
{
String line=rf.readLine();
if(line==null)
eof=true;
else
System.out.println(line);
rf.close();
}
}

```