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Roll No.: 23

Panel: C

Batch: C1

OOCCJ Lab Assignment 2A

CODE:

```
#include <iostream>
```

```
using namespace std;
```

```
//Base Class
```

```
class employee{
```

```
    string ename;
```

```
    int e_id;
```

```
    public:
```

```
        employee();
```

```
        employee(string ename,int e_id);
```

```
        void getdata();
```

```
        void displaydata();
```

```
        ~employee();
```

```
};
```

```
employee::employee(){
```

```
    ename="";
```

```
    e_id=0;
```

```
}
```

```
employee::employee(string n,int id){
```

```
    ename=n;
```

```
    e_id=id;
```

```
}
```

```
void employee::getdata(){
```

```
    cout<<"Enter the employees name: ";
```

```
    cin>>ename;
```

```
    cout<<"Enter the employee's Id: ";
```

```
    cin>>e_id;
```

```
}
```

```
void employee::displaydata(){
```

```
    cout<<"The employees name is: "<<ename;
```

```
    cout<<"\nThe employee's Id is: "<<e_id;
```

```
}
```

```
employee::~~employee(){}  
  
//Base class completed  
  
//Derived CClass Salaried Employee  
  
class Salariedemployee:public employee{ string e_name;  
  
int id;  
  
double weeklysalar;  
  
public:  
  
Salariedemployee();  
  
Salariedemployee(double weeklysalar,int id,string n);  
  
void earnings();  
  
~Salariedemployee();  
  
};  
  
Salariedemployee::Salariedemployee(){
```

```

getdata();

weekllysalary=0;

}

Salariedemployee::Salariedemployee(double ws,int id,string n):employee(n,id){
weekllysalary=ws;

}

void Salariedemployee::earnings(){

cout<<"The employees weekly salary is: "<<weekllysalary;

}

Salariedemployee::~~Salariedemployee(){

cout<<"\nDestructor";

}

// Derived Class Hourly Employee

class hourlyemployee:public employee{

double wages;

double hours;

double hourllysalary;

```

```
int e_id;

string ename;

public:

hourlyemployee();

hourlyemployee(double w,double h,double hs,int id,string n); void earnings(double hours,double
wages); ~hourlyemployee();

};
```

```
hourlyemployee::hourlyemployee(){

getdata();

wages=00.0;

hours=00.0;

hourlysalary=00.0;

}

hourlyemployee::hourlyemployee(double w,double h,double hs,int id,string n):employee(n,id){

wages=w;

hours=h;

hourlysalary=hs;

}
```

```

void hourlyemployee::earnings(double hours,double wages){ double hourllysalary;

if(hours<40){

hourllysalary=hours*wages;

}

else{

hourllysalary=(40*wages)+((hours-40)*wages*1.5);

}


cout<<"The Hourly Salary of employee is: "<<hourllysalary;


}


hourlyemployee::~~hourlyemployee(){

cout<<"\nDestructor";

}

```

```

//Derived ClassCommission Employee

class commissionemployee:public employee{ int e_id;

string ename;

double grosssales;

double commissionrate;

```

```
double commissionsalary;
```

```
public:
```

```
commissionemployee();
```

```
commissionemployee(double gs,double cr,int id,string n); void earnings(double  
grosssales,double commissionrate); ~commissionemployee();
```

```
};
```

```
commissionemployee::commissionemployee(){
```

```
getdata();
```

```
grosssales=00.00;
```

```
commissionrate=00.0;
```

```
commissionsalary=00.0;
```

```
}
```

```
commissionemployee::commissionemployee(double gs,double cr,int id,string n):employee(n,id){
```

```
grosssales=gs;
```

```
commissionrate=cr;
```

```
// commissionsalary=cs;
```

```
}
```

```
void commissionemployee::earnings(double grosssales,double commissionrate){
```

```
double commissionsalary;

commissionsalary=grosssales*commissionrate;

cout<<"The Commission Salary of employee is: "<<commissionsalary;

}
```

```
commissionemployee::~~commissionemployee(){

cout<<"\nDestructor";

}
```

```
int main() {

cout << "PC 23 Devanshu Surana" << endl;
```

```
Salariedemployee se2(120000,3,"Devanshu");
```

```
se2.earnings();
```

```
cout<<"\n";
```

```
se2.displaydata();
```

```
//Hourly Class
```

```
hourlyemployee he1(1500,57,25,2,"Pranav");
```

```
cout<<"\n";
```

```
he1.displaydata();
```



```

cout<<"\n";

he1.earnings(35,1500);

cout<<"\n";


// Commission Class

commissionemployee ce1(20000,7,7,"Anuj");

cout<<"\n";

ce1.displaydata();

cout<<"\n";

ce1.earnings(10000,5);

}

```

Output:-

```

PC 23 Devanshu Surana
The employees weekly salary is: 120000
The employees name is: Devanshu
The employee's Id is: 3
The employees name is: Pranav
The employee's Id is: 2
The Hourly Salary of employee is: 52500

The employees name is: Anuj
The employee's Id is: 7
The Commission Salary of employee is: 50000
Destructor
Destructor
Destructor

```