

```
#include <iostream>

#include<string>

using namespace std;
```

```
class reservation
{
    private:

        int reservation_id, noofadults, noofchildren;

        char r_ldate, r_odate;

        room *rooms[SIZE];


    public:

        reservation();

        reservation(int rsid, char idate, char odate,int adults, int children);

        void displayReservation();

        void setReservationDetails();

        void updateReservationDetails();

        void addrooms();

        float calculatePrice();


};
```

```
class invoice :public reservation {

    private:
```

```
int invoice_id;  
int invoiceNumber;  
payment *payments;
```

```
public:
```

```
    invoice();  
    invoice(int invid, int inNo, payment *p);  
    void storeInvoiceDetails();  
    void generateInvoiceDetails();
```

```
};
```

```
class offers {
```

```
private:
```

```
    int offer_id;  
    char offerName;  
    char offerType;  
    hotel *hotels;
```

```
public:
```

```
    offer();  
    offer(int ofid, char ofname, char oftype, hotel *h);  
    void selectOffers();  
    void updateOffers();  
    void storeOfferDetails();
```

```
};
```

```
reservation::reservation(){}
```

```
reservation::reservation(int rsid, char idate, char odate,int adults, int children)
```

```
{
```

```
    reservation_id = rsid;
```

```
    reservationInDate = idate;
```

```
    reservationOutDate = odate;
```

```
    numberOfAdults = adults;
```

```
    numberOfChildren = children;
```

```
}
```

```
void reservation::displayReservation(){}
```

```
void reservation::setReservationDetails(){}
```

```
void reservation::updateReservationDetails(){}
```

```
void reservation::addrooms(){}
```

```
float reservation::calculatePrice(){}
```

```
invoice::invoice() {}
```

```
invoice::invoice(int invid, int inNo, payment *p)
```

```
{
```

```
    invoice_id = invid;
```

```
    invoiceNumber = inNo;
```

```
    payment *payments = payment *p;
```

```
}
```

```
void invoice::storeInvoiceDetails(){}
```

```
void invoice::generateInvoiceDetails(){}
```

```

offers::offers(){}

offers::offer(int ofid, char ofname, char oftype, hotel *h)
{
    offer_id = ofid;
    offerName = ofname;
    offerType = oftype;
    hotel *hotels = hotel *h;

}

void offers::selectOffers(){}
void offers::updateOffers(){}
void offers::storeOfferDetails(){}

int main()
{
    reservation p1(123, "03/05/2022", "06/05/2022", 2, 3);
    invoice v1(123456, 200);
    offers m1(123456789, "christmas", "season offer", "ABC Hotel");

return 0;
}

```