

```

#include <iostream>
#include<string>
using namespace std;

//Payment class
class payment
{
protected:
    int paymentid;
    float amount;

public:
    payment();
    payment(int pid, float pamount);
    void paymentdetails();
    void Validate();

};

//class visa
class visa :public payment {
private:
    int cardno;
    string name;
    int cvcno;

public:
    visa();
    visa(int cno, string cname,int cvc);

};

```

```

//class mastercard

class mastercard :public payment {
private:
    int cardno;
    string name;
    int cvcno;

public:
    mastercard();
    mastercard(int cno, string cname,int cvc);

};

//class creditcard
class creditcard :public payment {
private:
    int cardno;
    string name;
    int cvcno;

public:
    creditcard();
    creditcard(int cno, string cname,int cvc);

};

//function implementation
payment::payment(){}

payment::payment(int pid, float pamount)
{

```

```
    paymentid = pid;
    amount = pamount;
}
```

```
Void payment::Validate(){}
```

```
void payment::paymentdetails(){}
```

```
visa::visa() {}
```

```
visa::visa(int cno, string cname, int cvc)
```

```
{
    cardno = cno;
    name = cname;
    cvcno = cvc;
}
```

```
mastercard::mastercard(){}
```

```
mastercard::mastercard(int cno, string cname, int
cvc)
```

```
{
    cardno = cno;
    name = cname;
    cvcno = cvc;
}
```

```
creditcard::creditcard(){}
```

```
creditcard::creditcard(int cno, string cname, int
cvc)
```

```
{
    cardno = cno;
    name = cname;
}
```

```
        cvcno = cvc;
    }

//main program
int main()
{
    payment p1(1, 20000);
    visa v1(4562135498758546, "tharindu", 256);
    mastercard m1(4216875236549825, "nipun", 546);
    creditcard c1(2564879565321256, "anjana", 987);

    return 0;
}
```