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## OOP Assignment 3

1. Write a macro to find the maximum of two numbers.

Call the macro with

i) two integers as the arguments and

ii) two char \* as the arguments. Observe the outcomes.

```
#include<iostream>
#include<cstdlib>
#include<string>
#define max(a,b) a==b ? a : (a<b ? b : a)
```

```
using namespace std;
```

```
int main()
{
    int a,b;
    string s1,s2;
    cout<<"Enter two values: ";
    cin>>a>>b;
    cout<<"Enter two strings : ";
    cin>>s1>>s2;
    cout<< (max(a,b)) <<" is greater or equal"<<endl;
    cout<<(max(s1,s2))<<" is greater or equal"<<endl;
    return 0;
}
```

```
Enter two values: 1 2
Enter two strings : ola amigo
2 is greater or equal
ola is greater or equal
```

2. Write a function to find the product of two numbers. Call it number of times. Make the functions inline. [check the time of execution and size of object code]

```
#include <iostream>
#include <cstdlib>
#include <ctime>
using namespace std;

inline int product_inline(int a, int b){
    return a*b;
}

int product(int a,int b){
    return a*b;
}

int main()
{
    int a,b;
    cout<<"Enter two value multiplication: ";
    cin>>a>>b;
    clock_t start = clock();
    int result = product(a,b);
    clock_t end = clock();
    double time_taken = ((double)(end-start))/CLOCKS_PER_SEC;
    cout<<"Time taken by normal func="<<time_taken<<endl;
    cout<<result<<endl;

    start = clock();
    result = product_inline(a,b);
    end = clock();
    time_taken = ((double)(end-start))/CLOCKS_PER_SEC;
    cout<<"Time taken by inline func="<<time_taken<<endl;
    cout<<result<<endl;
    return 0;
}
```

```
Enter two value multiplication: 2 3
Time taken by normal func=1.6e-05
6
Time taken by inline func=3e-06
6
```

3. Write a function swap (a, b) to interchange the values of two variables. Do not use pointers.

```
#include <iostream>
#include <cstdlib>
#include <ctime>
#include <vector>
```

```
using namespace std;
```

```
template<class T>
void my_swap(T& a,T& b){
    T t = move(a);
    a = move(b);
    b = move(t);
}
```

```
int main()
{
    vector<int> a(10),b(10);
    for(int i=0;i<10;i++){
        a[i] = i;
        b[i] = i+100;
    }
    cout<<"Before my_swap: "<<endl;
    for(int i=0;i<10;i++)
        cout<<a[i]<<" ";
    cout<<endl;
    for(int i=0;i<10;i++)
        cout<<b[i]<<" ";
    cout<<endl;
    my_swap(a,b);
    cout<<"After my_swap: "<<endl;
    for(int i=0;i<10;i++)
        cout<<a[i]<<" ";
    cout<<endl;
    for(int i=0;i<10;i++)
        cout<<b[i]<<" ";
    cout<<endl;
    return 0;
}
```

```
Before my_swap:
0 1 2 3 4 5 6 7 8 9
100 101 102 103 104 105 106 107 108 109
After my_swap:
100 101 102 103 104 105 106 107 108 109
0 1 2 3 4 5 6 7 8 9
```

4. Write a function max (a, b) that will return the reference of larger value. Store the returned information to x where x is a

- i) variable of type a or b,
- ii) variable referring to type of a or b. In both the cases modify x. Check also the values of a and b.

```
#include <iostream>
#include <cstdlib>
#include <ctime>
using namespace std;

template<class T>
inline T& my_max(T& a,T& b){
    if(a==b)
        return a;
    else
        if(a>b)
            return a;
        else
            return b;
}

int main()
{
    int a = 1, b = 2;
    int x = my_max<int>(a,b);
    cout<<"Same type:"<<endl;
    cout<<"x="<<x<<endl;
    x+= 10;
    //cout<<"x+=10 ="<<x<<endl;
    cout<<"a="<<a<<" b="<<b<<endl;
    int &y = my_max<int>(a,b);
    cout<<"Refrence type:"<<endl;
    cout<<"y="<<y<<endl;
    y+=10;
    //cout<<"y+=10 ="<<y<<endl;
    cout<<"a="<<a<<" b="<<b<<endl;

    return 0;
}
```

Same type:

x=2

a=1 b=2

Refrence type:

y=2

a=1 b=12

5. Write a function that will have income and tax rate as arguments and will return tax amount. In case tax rate is not provided it will be automatically taken as 10%. Call it with and without tax rate.

```
#include <iostream>
#include <cstdlib>
#include <ctime>
using namespace std;

inline double tax(int income, double rate = 10.0){
    return income*rate/100;
}

int main()
{
    int income;double rate;
    cout<<"input income and rate(in percent): ";
    cin>>income>>rate;
    double tax_returns = tax(income,rate);
    cout<<fixed<<tax_returns<<endl;
    tax_returns = tax(income);
    cout<<fixed<<tax_returns<<endl;
    return 0;
}
```

```
input income and rate(in percent): 100000000 8
8000000.000000
10000000.000000
```

6. Write a function void f(int) that prints “inside f(int)”. Call the function with actual argument of type:

- i) int,
- ii) char,
- iii) float and
- iv) double.

Add one more function f(float) that prints “inside f(float)”. Repeat the calls again and observe the outcomes.

```
#include <iostream>
#include <cstdlib>
#include <ctime>
using namespace std;
```

```

void f(int i){
    cout<<"inside f(int)"<<endl;
}
void f(char i){
    cout<<"inside f(char)"<<endl;
}

int main()
{
    int a = 1;
    char b = 'b';
    float c = 2.0;
    double d = 3.0;
    //f(a);//f(b);
    //f(c);//f(d);
    return 0;
}

```

7. Define functions f(int, int) and f (char, int). Call the functions with arguments of type (int, char), (char,char) and (float, float).

```

#include <iostream>
#include <cstdlib>
#include <ctime>
using namespace std;

void f(int x,int y){
    cout<<"inside f(int,int)"<<endl;
}
void f(char x,int y){
    cout<<"inside f(char,int)"<<endl;
}

int main()
{
    int a = 1;
    char b = 'b';
    float c = 2.0;
    f(a,b);f(b,b);//f(c,c);
    return 0;
}

```

8. Define a structure student with roll and score as attributes and with two member functions to take input and to show the data. Use the member functions to take data for a structure variable and to show. Write global function i) to modify score and ii) to show the data again.

```
#include <iostream>
#include <cstdlib>
#include <ctime>
using namespace std;

struct student{
    int roll;
    float score;
    void input(){
        cout<<"Enter roll: ";
        int roll;cin>>roll;
        cout<<"Enter score: ";
        int score;cin>>score;
        this->roll = roll;
        this->score = score;
    }
    void show(){
        cout<<"Roll: "<<roll<<endl<<"Score: "<<score<<endl;
    }
}s;

void modify(student &x,int score = s.score,int roll = s.roll){
    x.roll = roll;
    x.score = score;
    x.show();
}

int main()
{
    s.input();
    s.show();
    modify(s,10);
    return 0;
}
```

```
Enter roll: 1
Enter score: 100
Roll: 1
Score: 100
Roll: 1
Score: 10
```

9. Design a class TIME which stores hour, minute and second. The class should have the methods to support the following:

- User may give the time value in 24-hour format.
- User may give the time value in AM/PM format
- Display the time in 24-hour format.
- Display the time in AM/PM format.
- User may like to add minute with a time value.

```
#include <iostream>
#include <cstdlib>
#include <ctime>
#include <string>
using namespace std;
```

```
class Time{
    int hour;
    int minute;
    int seconds;
public:
    void set_time_in_24(int hour,int minute,int seconds){
        this->hour = hour;
        this->minute = minute;
        this->seconds = seconds;
    }
    void set_time_in_ampm(int hr,int minute,int seconds,string s){
        if(s=="AM")
            if(hr==12)
                hour = hr - 12;
            else
                hour = hr;
        else
            if(hr==12)
                hour = hr;
            else
                hour = hr + 12;
        this->minute = minute;
        this->seconds = seconds;
    }
    void show_in_24(){
        cout<<"Time is: "<<hour<<":"<<minute<<":"<<seconds<<endl;
    }
    void show_in_ampm(){
        int hr = hour;
        if(hour>12)
```



```

    hr = hour%12;
    else if(hour==0)
        hr = 12;
    string s = hour>=12 ? "PM" : "AM";
    cout<<"Time is: "<<hr<<":"<<minute<<":"<<seconds<<" "<<s<<endl;
}
void add_minutes(int minutes){
    int hr = minutes/60;
    minutes = minutes%60;
    hour = (hour+hr)%24;

    if(minute+minutes>=60){
        hour = (hour+1)%24;
        minute = (minute+minutes)%60;
    }else
        minute += minutes;
}
};

```

```

int main()
{
    Time t;
    t.set_time_in_24(0,55,22);
    t.show_in_24();
    t.show_in_ampm();
    t.add_minutes(200);
    t.show_in_24();
    t.show_in_ampm();
    t.set_time_in_ampm(12,32,11,"PM");
    t.show_in_24();
    t.show_in_ampm();
    t.add_minutes(130);
    t.show_in_24();
    t.show_in_ampm();
    return 0;
}

```

```

Time is: 0:55:22
Time is: 12:55:22 AM
Time is: 4:15:22
Time is: 4:15:22 AM
Time is: 12:32:11
Time is: 12:32:11 PM
Time is: 14:42:11
Time is: 2:42:11 PM

```

10. Create a STACK class with operation for initialization, push and pop. Support for checking underflow and overflow condition are also to be provided.

```
#include <iostream>
#include <cstdlib>
#include <ctime>
using namespace std;
```

```
class stack{
    int* arr;
    int size;
    int max;
public:
    stack(int max_size): arr(new int[max_size]),size(0),max(max_size){}
    void show(){
        cout<<"Stack is:"<<endl;;
        for(int i=size-1;i>=0;i--)
            cout<<arr[i]<<endl;
        cout<<endl;
    }
    void push(int v){
        if(size<max)
            arr[size++] = v;
        else
            cout<<"Stack is already full"<<endl;
    }
    void pop(){
        if(size>0)
            size--;
        else
            cout<<"Stack is already empty"<<endl;
    }
    bool is_empty(){
        return (!size);
    }
    int curr_size(){
        return size;
    }
};
```

```
int main()
{
    stack s(5);
    cout<<s.is_empty()<<endl;
```

```

cout<<s.curr_size()<<endl;
for(int i=0;i<6;i++){
    s.push(i+12);
}
s.show();
s.pop();
cout<<s.is_empty()<<endl;
cout<<s.curr_size()<<endl;
s.show();
for(int i=0;i<5;i++)
    s.pop();
s.show();
s.push(100);
cout<<s.is_empty()<<endl;
cout<<s.curr_size()<<endl;
s.show();
return 0;
}

```

```

1
0
Stack is already full
Stack is:
16
15
14
13
12

```

```

0
4
Stack is:
15
14
13
12

```

```

Stack is already empty
Stack is:

```

```

0
1
Stack is:
100

```

11. Create an APPLICANT class with application id (auto generated as last id +1), name and score. Support must be there to receive applicant data, show applicant details and to find out number of applicants.

```
#include <iostream>
#include <cstdlib>
#include <ctime>
using namespace std;

class applicants{
    static int num_of_app;
    string name;
    int score;
    int roll;
public:
    void admit(const string &name,const int &score){
        this->name = move(name); this->score = score;
        num_of_app++;
        roll = num_of_app;
    }
    void show(){cout<<"Roll: "<<roll<<endl<<"Name: "
    "<<name<<endl<<"Score: "<<score<<endl;}
    static void number_of_applicants(){cout<<"Number of applicants is: "
    "<<num_of_app<<endl;}
};
int applicants::num_of_app = 0;

int main()
{
    applicants a,b;
    a.admit("Rahul Maiti",100);
    a.show();
    applicants::number_of_applicants();
    b.admit("Rishav paul",90);
    b.show();
    applicants::number_of_applicants();

    return 0;
}
```

```
Roll: 1
Name: Rahul Maiti
Score: 100
Number of applicants is: 1
Roll: 2
Name: Rishav paul
Score: 90
Number of applicants is: 2
```

12. Design a STUDENT class to store roll, name, course, admission date and marks in 5 subjects. Provide methods corresponding to admission (marks are not available then), receiving marks and preparing mark sheet. Support must be there to show the number of students who have taken admission.

```
#include <iostream>
#include <cstdlib>
#include <ctime>
using namespace std;
const int subs = 5;
const string subjects[5] = {"Maths", "OOP", "DSA", "COA", "Digital Logic"};
```

```
class student{
    static int num;
    string name;
    float scores[subs];
    int roll;
    string course;
    string date;
    void marksheet(){
        cout<<"Date of admission: "<<date<<endl;
        cout<<"Roll: "<<roll<<endl<<"Name: "<<name<<endl<<"Course: "
        <<course<<endl;
        for(int i=0;i<subs;i++){
            cout<<subjects[i]<<" - "<<scores[i]<<endl;
        }
    public:
    void admit(const string &name,const string& course,const string& date){
        this->name = move(name);
        num++;
        roll = num;
        this->course = move(course);
        this->date = move(date);
    }
    void give_marks(){
        cout<<name<<"'s "<<"scores:"<<endl;
        for(int i=0;i<subs;i++){
            cout<<"Enter marks for "<<subjects[i]<<": ";
            cin>>scores[i];
        }
        marksheet();
    }
    static void number_of_students(){cout<<"Number of students is: "
    <<num<<endl;}
};
```

```
int student::num = 0;

int main()
{
    student a,b;
    a.admit("Rahul Maiti","CSE","22/12/23");
    a.give_marks();
    student::number_of_students();
    b.admit("Rishav paul","IEE","20/10/23");
    b.give_marks();
    student::number_of_students();

    return 0;
}
```

```
Rahul Maiti's scores:
Enter marks for Maths: 100
Enter marks for OOP: 90
Enter marks for DSA: 99
Enter marks for COA: 99
Enter marks for Digital Logic: 98
Date of admission: 22/12/23
Roll: 1
Name: Rahul Maiti
Course: CSE
Maths - 100
OOP - 90
DSA - 99
COA - 99
Digital Logic - 98
Number of students is: 1
Rishav paul's scores:
Enter marks for Maths: 78
Enter marks for OOP: 78
Enter marks for DSA: 78
Enter marks for COA: 88
Enter marks for Digital Logic: 88
Date of admission: 20/10/23
Roll: 2
Name: Rishav paul
Course: IEE
Maths - 78
OOP - 78
DSA - 78
COA - 88
Digital Logic - 88
Number of students is: 2
```

13. Create a class for linked list. Consider a separate class NODE for basic node activities and use it in class for linked list.

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

```
class node{
    int s;
    node *next;
    node *head;
    node *tail;
public:
    static int nodes;
    void create(int x);
    void insert(int x,int pos);
    void remove(int pos);
    void print_list(){
        node *h = head;
        for(;h!=NULL;h=h->next){
            cout<<h->s<<"->";
        }
        cout<<"NULL "<<endl;
    }
};
```

```
class List{
    node n;
public:
    List(int v){n.create(v);}
    void push_back(int v){n.insert(v,(node::nodes)+1);}
    void push_front(int v){n.insert(v,1);}
    void insert(int v,int pos){n.insert(v,pos);}
    void pop_back(){n.remove(node::nodes);}
    void pop_front(){n.remove(1);}
    void remove(int pos){n.remove(pos);}
    void display(){n.print_list();}
    int count(){return node::nodes;}
};
```

```
int node::nodes = 0;
```

```
int main()
{
    List l(11);
    for(int i=0;i<5;i++)
```

```

    l.push_back(i+20);
    l.display();cout<<l.count()<<endl;
    for(int i=0;i<5;i++)
        l.push_front(i+200);
    l.display();cout<<l.count()<<endl;
    for(int i=0;i<5;i++)
        l.pop_front();
    l.display();cout<<l.count()<<endl;
    for(int i=0;i<5;i++)
        l.pop_back();
    l.display();cout<<l.count()<<endl;

```

```

    for(int i=0;i<5;i++)
        l.insert(i*2,i+2);
    l.display();cout<<l.count()<<endl;
    for(int i=0;i<5;i++)
        l.insert(i*10,i+4);
    l.display();cout<<l.count()<<endl;
    for(int i=0;i<5;i++)
        l.remove(i);
    l.display();cout<<l.count()<<endl;
    return 0;
}

```

```

void node::create(int x){
    node *newNode = new node;
    newNode->s = x;
    newNode->next = NULL;
    head = newNode;
    tail = head;
    node::nodes++;
}

```

```

void node::insert(int x,int pos){
    if(pos<1){//illegal position
        printf("No such Position!\n");
        return;
    }
}

```

```

if(pos>(nodes+1)){
    cout<<"Total number of nodes present is "<<nodes<<" so appending
nodes to the current list at "<<(nodes+1)<<" position"<<endl;
}

```

```

if(nodes==0){
    node::create(x);
}

```



```
    return;  
}
```

```
if(pos>=(nodes+1)){//append to the end of the list  
    node *newNode = new node;  
    newNode->s = x;  
    newNode->next = NULL;  
    tail->next = newNode;  
    tail = newNode;  
    node::nodes++;  
    return;  
}
```

```
/*-----Insert in middle or front-----*/  
node *temp = head;  
int traversed = 1;  
while(traversed<(pos-1)){  
    temp = temp->next;  
    traversed++;  
}  
node *newNode = new node;  
newNode->s = x;  
if(pos>1){  
    newNode->next = temp->next;  
    temp->next = newNode;  
}  
else{  
    newNode->next = head;  
    head = newNode;  
    if(nodes<1)  
        tail = head;  
}  
node::nodes++;  
}
```

```
void node::remove(int pos){  
    if(pos>nodes || pos<1){//illegal position  
        printf("No such data!\n");  
        return;  
    }  
    node *temp = head;  
    if(pos==1){//deleting first node  
        head = head->next;  
        delete temp;  
        node::nodes--;
```

```

    return;
}

/*-----deleting any other node than first node-----*/
int traversed = 1;
while(traversed<(pos-1)){
    temp = temp->next;
    traversed++;
}
if(temp->next->next==NULL)
    tail = temp;
node *del = temp->next;
temp->next = temp->next->next;
delete del;
node::nodes--;
}

```

```

11->20->21->22->23->24->NULL
6
204->203->202->201->200->11->20->21->22->23->24->NULL
11
11->20->21->22->23->24->NULL
6
11->NULL
1
11->0->2->4->6->8->NULL
6
11->0->2->0->10->20->30->40->4->6->8->NULL
11
No such data!
0->0->20->40->4->6->8->NULL
7

```

14. Design the class(es) for the following scenario:

- An item list contains item code, name, rate, and quantity for several items.
- Whenever a new item is added in the list uniqueness of item code is to be checked.
- Time to time rate of the items may change.
- Whenever an item is issued or received existence of the item is checked and quantity is updated.
- In case of issue, availability of quantity is also to be checked.
- User may also like to know price/quantity available for an item.

```

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

struct item{
    int code;
    string name;
    float rate;
    int qty;
};

ostream& operator<<(ostream& o,const item& i){
    o<<i.code<<" "<<i.name<<" "<<i.rate<<" "<<i.qty;
    return o;
}

class item_list{
public:
    vector<item> vi;
    void add_to_vi(const item& i){vi.push_back(i);}
    void print_list(){
        for(auto itr = vi.begin();itr!=vi.end();++itr)
            cout<<*itr<<endl;
    }
    item* find_item(int c){
        for(auto itr = vi.begin(); itr!=vi.end();++itr)
            if(itr->code==c)
                return &(*itr);
        return nullptr;
    }
};

class User{
    item_list il;
public:
    void add_item(int c,const string& n,float r,int q){
        int in = c;
        item *x = il.find_item(c);
        while(x!=nullptr && x->name!=n){//code is already present with a product
of a different name.
            cout<<"Item already present: "<<*x<<endl<<"Enter a valid code(Press
-1 to cancel this product): ";
            cin>>in;
            x = il.find_item(in);
        }
        if(in==-1)//cancel this product

```

```
return;
```

```
if(x!=nullptr && x->name==n)//over write the previous product of same  
name and code.
```

```
    il.vi.erase(il.vi.begin()+(x-&(il.vi[0])));
```

```
    item i = {in,n,r,q};
```

```
    il.add_to_vi(i);
```

```
}
```

```
void add_item(item& i){
```

```
    add_item(i.code,i.name,i.rate,i.qty);
```

```
}
```

```
void change_rate(int code,float rate){
```

```
    item* x = il.find_item(code);
```

```
    if(x)
```

```
        x->rate = rate;
```

```
}
```

```
item* check_availability(int code){
```

```
    item* x;
```

```
    if((x=il.find_item(code))){
```

```
        cout<<*x<<endl;
```

```
        return x;
```

```
    }else{
```

```
        cout<<"No such item in inventory"<<endl;
```

```
        return nullptr;
```

```
    }
```

```
}
```

```
void issue_item(int code,int num){
```

```
    item* x = check_availability(code);
```

```
    if(x!=nullptr && x->qty>=num){
```

```
        x->qty-=num;
```

```
    }
```

```
}
```

```
void print_list(){il.print_list();}
```

```
};
```

```
int main()
```

```
{
```

```
    User user;
```

```
    item i = {1001,"kola",22.50,10};
```

```
    user.add_item(i);
```

```

user.issue_item(1001,3);
user.change_rate(1001,24);
user.check_availability(1001);
item b = {1001,"kola",28.50,12};
user.add_item(b);
user.issue_item(1002,10);
user.issue_item(1001,1);
user.add_item(1001,"ola",23,20);
user.print_list();
return 0;
}

```

```

1001 kola 22.5 10
1001 kola 24 7
No such item in inventory
1001 kola 28.5 12
Item already present: 1001 kola 28.5 11
Enter a valid code(Press -1 to cancel this product): 10
1001 kola 28.5 11
1002 ola 23 20

```

15. Design a BALANCE class with account number, balance and date of last update. Consider a TRANSACTION class with account number, date of transaction, amount and transaction type (W for withdrawal and D for deposit). If it is a withdrawal check whether the amount is available or not. Transaction object will make necessary update in the BALANCE class.

```

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

enum type{W,D,I};
ostream& operator<<(ostream& o,const type& t){
    if(t==0)
        o<<"Withdrawal";
    else if(t==1)
        o<<"Deposit";
    else
        o<<"Incomplete";
    return o;
}

```

```

class balance{
    string last_upd;
    int acc;
    float bal;
public:
    balance(int acc,const string& d,int bal):acc(acc),bal(bal),last_upd(d){}
    void set_bal(int x){bal=x;}
    float get_bal(){return bal;}
    int get_acc(){return acc;}
    void show_balance(){cout<<acc<<": "<<last_upd<<"\t"<<"Rupees
"<<bal<<endl;}
};

```

```

class transaction{
    int acc;
    float aot;
    type t;
    string dot;
public:
    transaction(int acc,const string& d,float a,type t):acc(acc),dot(d),aot(a),t(t){}
    string get_dot(){return dot;}
    void deposit(balance* b){b->set_bal(aot);}
    void withdraw(balance *b){if(b->get_bal()>=aot)b->set_bal((b->get_bal()-
aot));else{cout<<"Insufficient balance"<<endl;t=l;}}
    void show_transaction(){cout<<acc<<": "<<dot<<"\tRupees
"<<aot<<"\t"<<t<<endl;}
};

```

```

class account{
    vector<transaction> t;
    balance *b;
    static int acc;
public:
    account(const string& d,int bal=0){b = new balance(acc,d,bal);acc++;}
    void transact(int type,float amt,const string& d){
        transaction t1(b->get_acc(),d,amt,static_cast<enum type>(type));
        if(type==W){
            t1.withdraw(b);
        }else{
            t1.deposit(b);
        }
        t.push_back(t1);
    }
};

```

```

void find_transactions(const string& d){
    b->show_balance();
    int c = 0;
    for(auto itr = t.begin();itr!=t.end();++itr)
        if(itr->get_dot()==d){
            itr->show_transaction();
            c++;
        }
    if(c>0)
        cout<<c<<" transaction(s) was/were made on "<<d<<endl;
    else
        cout<<"No such transaction"<<endl;
}
void list_transactions(){
    b->show_balance();
    for(auto itr = t.begin();itr!=t.end();++itr)
        itr->show_transaction();
}
};

int account::acc = 1000;

int main()
{
    account a("22/10/23");
    a.transact(W,10000,"23/10/23");
    //a.transact(D,10000,"23/10/23");
    a.transact(W,9000,"24/10/23");
    a.find_transactions("24/10/23");
    return 0;
}

```

```

Insufficient balance
Insufficient balance
1000: 22/10/23 Rupees 0
1000: 24/10/23 Rupees 9000 Incomplete
1 transaction(s) was/were made on 24/10/23

```