Assignment 11 for Week 16

✧ Note: Write the answer and submit with the name of "**StudentID_Name_11.pdf**".

1. Describe the output when the program is run.

1)

```
#include<iostream>
using namespace std;
int main(){
    int a[]={8,5,5,0,6,0,8,5,5,0,7,8};
    for(int i=0;i<5;i++)
        try{
            cout << "in for loop...." << i << "\t";
            if(a[i+1]==0)    throw 1;
            cout << a[i] << "/" << a[i+1] << "=" << a[i]/a[i+1] << endl;
        }
        catch (int) {cout<<"end"<<endl;}
    return 0;
}
```

2)

```
#include<iostream>
using namespace std;
void err(int t){
    try{
        if(t>100) throw "biger than 100";
        else if(t<-100) throw t;
        else cout<<"t in right range..."<<endl;
    }
    catch(int x){cout<<"error---"<<x<<endl;}
    catch(char *s){cout<<"error---"<<s<<endl;}
    catch(float f) {cout<<"error---"<<f<<endl;}
}
int main(){
    err(200);
    err(99);
    err(-1210);
    return 0;
}
```

3)

```
#include<iostream>
using namespace std;
class excep
{
```

```
private:
    char *ch;
public:
    excep(char *m="exception class..."){ch=m;}
    void print(){cerr<<ch<<endl;}
};
void err1(){
    cout<<"enter err1\n";
    throw excep("exception");
}
void err2(){
    try{cout<<"enter err2\n";err1();}
    catch(int){cerr<<"err2:catch\n";throw;}
}
void err3(){
    try{cout<<"enter err3\n";err2();}
    catch(...){cerr<<"err3:chtch\n";throw;}
}
int main(){
    try{err3();}
    catch(...){cerr<<"main:catch\n";}
    return 0;
}
```

2. Design a ***queue*** which can hold ten elements. When the queue is full and some element try to be pushed into the queue, an exception that the queue is full is thrown. And when the queue is empty and some element try to be pop out of the queue, an exception that the queue is empty is thrown.

✧ Note: Submit the above source code with the file name of "***StudentId_Name_11_1.rar***".

✧ Note:
Submit your assignment together with two attachments before the end of this week(June 16th) to the Superstar platform!