LABORATORY 4 CDS

First task:

```
bool wantp=false,wantq=false;
byte turn=1;
active prototype p(){
do
        ::wantp=true;
                        do
                        ::wantq->
                                if
                                ::(turn==2)->
                                        wantp=false;turn==1;wantp=true
                                ::else
                                fi
                        :: else -> break
                        od;
        turn=2;
                        wantp=false;
        od
}

active prototype q(){
do
        ::wantq=true;
                        do
                        ::wantq->
                                if
                                ::(turn==1)->
                                        wantq=false;turn==1;wantq=true
                                ::else
fi
```

```
                    :: else -> break
                    od;
        turn=1;
                    wantq=false;
        od
}
```

Second problem:

```
byte n=0;

active prototype p(){

byte temp;

temp=n;

n=temp+1;

}

active prototype q(){

byte temp;

temp=n;

n=temp+1;

}
```