## ARTIFICIAL INTELLIGENCE ANGRY BIRDS – FINISHERS

## Code Snippets for Submission-6

 Implementation of isConnected method which returns true if two blocks are connected else returns false. It uses basic mathematical equation of a straight line of the form 4 Corner points of one block are substituted in the 4 line equations of other block.

```
Y - y1 = m (x - x1)
```

- 2. Method for determining sub-structures from the whole structure.
  - → Creates separate structures of type sub-structures and the blocks are divided accordingly of that type.

for(int i=0;i<objects.size();i++){
ABObject o=objects.get(i);
if(i==0){

public void createSubStructures(){

SubStructure ss=new SubStructure();

```
ss.add(o);
list.add(ss);
continue;
}
ArrayList<Integer> con=new ArrayList<Integer>();
for(int j=0; j< list.size(); j++){}
SubStructure ss1=list.get(j);
for(int k=0;k<ss1.obj.size();k++){
ABObject o1=ss1.obj.get(k);
//System.out.println(this.isconnected(0,01));
if(this.isconnected(o,o1)){
con.add(j);
break;
}
}
if(con.size()==0){
SubStructure ss2=new SubStructure();
ss2.add(o);
list.add(ss2);
continue;
}
SubStructure temp=list.get(con.get(0));
for(int j=1; j < con.size(); j++){}
SubStructure temp1=list.get(con.get(j));
for(int k=0;k<temp1.obj.size();k++){</pre>
temp.add(temp1.obj.get(k));
}
for(int j=1; j < con.size(); j++){}
list.remove(con.get(j));
}
```