12/06/2020

Java

① To string Method:

```
public class App {
 private int id;
 private string name;
public Frog (int id, string name){
        this.id = id;
        this name = name;
}
 public string to string (){
/*
  stringbuilder sb = new StringBuilder ();
  sb.append (id).append(":").append (name);
  return sb.to string ();
  */
```

② Inheritance:

```
public class Machine{
   public void start () {
   system.out.println("Machine started."};
}
public void stop() {
   system.out println ("Machine stopped");
  }
 }

     Car car1 = new Car()
public class Car extends Machine{
 string name = "Machine Type1";
public void stop (){
   system.out.println("Machine stopped")

  }
 }
 }.
```

- Packages :

```
package com. cave ofprograming.oceangame;
public class Aquarium {
}
```

- Interfaces:

```
    public static void main (strig[]args)[
     Machine mach1 = new Machine();
     mach1. start();
      Person person1 = new Person ("Bob");
      person1. greet();
    Info (info1) = new machine();
     info1. showInfo();
     Info info2 = personal;
      info2. show Info();
      System. out println();
   output Info (mach1);
   output Info (person1);
}.
```

- Public , Private , Protected.

/*

* private ... only within same class.
* public ... from anywhere.
* protected -- same class, subclass and same package.
* No modifier -- same package only.

Eg: public string name.
private strig type.
private strig size.

- Polymorphism:

```
public class App{
  public static void main (string [] args){
  Plant plant 1 = new plant();
  Tree tree = new tree ();
   plant plant 2 = tree;
   plant 2. grow();
   tree. shedleaves ();
    // plant 2 .shed leaves();
   do Grow (tree);
 }
 public static void do Grow(plant plant){
     plant.grow();
 }
}
```

- Encapsulation And the API DOCS :

```
class plant{
    public static final
    private string name;
    public string getName(){
      return name;
  }
    public void setName (string Name)
     this. name = name;
  }
 }
 public class App{
   public static void main(string[] args){
 }
}
```

- Casting Numerical values:

```
    byte bytevalue = 20;
    short stroot value = 55;
     int intvalue = 88;
     long logvalue = 23355;
    float floatvalue = 8834.8f;
    double doublevalue = 32.4;
  byte value = (byte)128;
   system.out. println (byte value);
  }
```

- upcasting & Downcasting:

```
      Machine machine1 = new machine();
      Camera Camera1 =  new Camera();
  machine1.start();
   Carmera1.start();
   Carmera1.snap();
 //upcasting
    machine.machine2 = camera1
    machine2.start();
    //error: machine2.snap();
 // Downcasting
     Machine machine3 = new Camera();
     Camera camera2 = (camera)machine3;
     camera2. start();
     Camera 2. snap();
```

- Generics:

```
        Arraylist list = new Array list();
        list.add ("apple");
        list.add ("banana");
   String fruit = (string)list.get(1);
   system.out. println(fruit);
```

12/06/2020

KICAED (PCB)

Then draw silk screen, where the components has to be placed.
Grid select to give name and reference name. Save in new library and save.
Dropbox - Kicad - My libraries - Name - Myfootprint
Save.

- Add footprint search path:

we shd save search path.
PCB new - preferences - library → User defined searchpaths, Add → dropbox - Kicad - My librarier, No → open → OK. → Save → setting we can use it.

- Production files:

Manufacture called Euro Circuits.
Gerber → we can generate many file
Gerber → file → F.Cu → B.Cu → F.Silks → B.Silks.
we need file for each and everything.
Edge Cuts also F.mask files are needed.
Exclude PCB edge layer from other layers., Browse, Skiouboard, My+1 → folder → My Genber, No, Plot, created, file is crated, Generate dril files - desktop - Drill file → Switch.dril (file name),
MyGreber → login → create account.
→ Analyze the data → Give all the datas.
Continue.