**Level 1**

1.

Create a Cricle class and intialize it with radius. Make two methods getArea and getCircumference inside this class.

**class** Circle():

**def** \_\_init\_\_(self,radius):

self.radius = radius

**def** getArea(self):

**return** 3.14\*self.radius\*self.radius

**def** getCircumference(self):

**return** self.radius\*2\*3.14

2.

Create a Temprature class. Make two methods :  
1. convertFahrenheit - It will take celsius and will print it into Fahrenheit.  
2. convertCelsius - It will take Fahrenheit and will convert it into Celsius.

**class** Temprature():

**def** convertFahrenhiet(self,celsius):

**return** (celsius\*(9/5))+32

**def** convertCelsius(self,farenhiet):

**return** (farenhiet-32)\*(5/9)

3.

Create a Student class and initialize it with name and roll number. Make methods to :  
1. Display - It should display all informations of the student.  
2. setAge - It should assign age to student  
3. setMarks - It should assign marks to the student.

**class** Student():

**def** \_\_init\_\_(self,name,roll):

self.name = name

self.roll= roll

**def** display(self):

**print** self.name

**print** self.roll

**def** setAge(self,age):

self.age=age

**def** setMarks(self,marks):

self.marks = marks

4.

Create a Time class and initialize it with hours and minutes.  
1. Make a method addTime which should take two time object and add them. E.g.- (2 hour and 50 min)+(1 hr and 20 min) is (4 hr and 10 min)  
2. Make a method displayTime which should print the time.  
3. Make a method DisplayMinute which should display the total minutes in the Time. E.g.- (1 hr 2 min) should display 62 minute.

**class** Time():

**def** \_\_init\_\_(self, hours, mins):

self.hours = hours

self.mins = mins

**def** addTime(t1, t2):

t3 = Time(0,0)

**if** t1.mins+t2.mins > 60:

t3.hours = (t1.mins+t2.mins)/60

t3.hours = t3.hours+t1.hours+t2.hours

t3.mins = (t1.mins+t2.mins)-(((t1.mins+t2.mins)/60)\*60)

**return** t3

**def** displayTime(self):

**print** "Time is",self.hours,"hours and",self.mins,"minutes."

**def** displayMinute(self):

**print** (self.hours\*60)+self.mins

a = Time(2,50)

b = Time(1,20)

c = Time.addTime(a,b)

c.displayTime()

c.displayMinute()