In [1]:
```
TheoryMarks = int(input("Enter the Theory marks?"))
LabMarks = int(input("Enter the Lab marks?"))
avrg = ((TheoryMarks + LabMarks)/200)*100

print("Average is: {0}".format(avrg));

if avrg > 80 and avrg <= 100:
    print("Congrats! you scored Grade A...");
elif avrg > 70 and avrg <= 80:
    print("Congrats! you scored Grade B...");
elif avrg > 60 and avrg <= 70:
    print("Congrats! you scored Grade C...");
elif avrg > 50 and avrg <= 60:
    print("Congrats! you scored Grade D...");
elif avrg < 50 and avrg >= 0:
    print("Sorry you're Fail...");
else:
    print("InValid Average");
```

```
Enter the Theory marks?80
Enter the Lab marks?90
Average is: 85.0
Congrats! you scored Grade A...
```

In [2]:
```
def square(item_list):
    squares = []
    for I in my_list:
        squares.append(I**2)
    return squares
my_list=[2,4,6]
my_result = square(my_list)
print("Square of the list are: ",my_result)
```

```
Square of the list are:  [4, 16, 36]
```

In [10]:
```
sensor= [10,20,30,40,50]


def ACFun(sensor):
      for i in sensor:
        if i > 30:
            print("AC ON.")
        else:
            print ("AC Of.")

ACFun(sensor)
```

```
AC Of.
AC Of.
AC Of.
AC ON.
AC ON.
```

In [ ]: