**Python sprint – Session 1**

Hey everyone!

**Solutions:**

1)Find all the 4 member, 3 member, 2 member and 1 member groups. Let count be the number of taxis. Count=count+4member. (3,1)=min(3member,1member). Count=count+(3,1). If 3member>1member: 3member=3member-(3,1) . Else 1member=1member-(3,1). Similarly, perform for two member. Add the remaining to the count.

2) If First letter CAPS(if(all other letters caps) all except first lowercase)

Else (if(all other letter caps)first letter caps, all others lowercase)

3) Use greedy approach. Sort the dragon based on their energy in ascending order. If dragon energy<player energy, player energy=player energy+boost. Else cannot be played. Loop until the end of array.

4) This is a graph based problem. Take the cities as vertices. Find the number of edges such that for any vertex V1,V2 there should be a path of weight 2 . Assume each edge has weight 2.

Have fun coding!