## **Assignment No: 02**



## <u>Department of Computer Science</u> <u>Iqra University Islamabad</u>

**Probability and Statistics** 

**Maqsood Ahmed** 

ID: 38186

## **Question:** [CLO2]

In a group of forty players, twenty players were wearing yellow shirts, fiftee were wearing blue shirts, and eight players were wearing yellow and blue shirts.

- a) What will be the probability that a randomly selected player was wearing yellow or blue shirt?
- b) What will be the probability that a randomly selected player was wearing yellow and blue shirt?

	ASSIGNMENT # OR"
Day/Date	ASSIGNMENT W.
20	- SE & Weller Town Comment of the Co
	200 100/03 20/03 V
	Suestione- In a group of Fosty players:  . Twenty players were wearing yellow shirts.  . Fifteen players were wearing blue shirts.  . Fight players were wearing both yellow and blue shirts.
43-4	In a group of Forly players:
,	. Twenty players were wellow yellow shirts.
	. Fifteen players were wearing blue shirts.
2.0	* Fight players were wearing both yellow and
	blue shirts!
	a) what will be the probability that a randomly selected player was wearing a yellow or blue shift?
	selected player was wearing a yellow or
	CALL Shirt 2V Clark Control of Cally Shirt Control of Cally Control of Cal
	Solution -
2-45	Given Datas-
	. Total players: 40  Players wearing yellow shirts: 20  players wearing blue shirts: 15
	· players wearing yellow shirts: 20
	* players wearing blue shirts: 15
in the	. players wearing both yellow and blue shorts: 8
	P(V) P P(V) · (P(P) P(V)
	→ P(YUB) = P(Y) + (P(B) - P(YNB)).
/1	
	= P(y) = Probability of wearing yellow P(B) = Probability of wearing blue.
	~ p (b) = mes ability of wearing blue.
	ep ( Yn B) = Probability top wearing both.
	1. 106 10 60 10 10 10 10 10 10 10 10 10 10 10 10 10
	(Friends)
	(Filends)

