Subject: Date:

Example

Name	Age (x_1)	Gender (y_1)	Sports liked		
Ali	32	M 1	Cricket	14.035	-
Sara	40	F 0	Football	22	
Safdar	16	M 1	Football	2.236	-
Hina	35	F 0	C	17	
Jaleel	20	M 1	Neither	2.23	-
Raza	19	M 1	C	1.414	-
Tayyab	15	M 1	C	3.16	-
Taimoor	23	M 1	Neither	5.099	-
Aneela	10	F 0	F	8	-

K = 3 7

w entry

	x_2	y_2		
Faswa	18	F 0	?	Cricket

$= \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$

$= \sqrt{(32 - 18)^2 + (1 - 0)^2}$

$= \sqrt{(14)^2 + (1)^2}$

$= \sqrt{196 + 1} = \sqrt{197} = 14.035$

$= \sqrt{(40 - 18)^2 + (0 - 0)^2}$

$= \sqrt{(22)^2 + (0)^2}$

$= \sqrt{484 + 0} = \sqrt{22}$

$= \sqrt{(16 - 18)^2 + (1 - 0)^2}$

$= \sqrt{(-2)^2 + (1)^2}$

$= \sqrt{4 + 1} = 2.236$

$= \sqrt{(35 - 18)^2 + (0 - 0)^2}$

$= \sqrt{(17)^2} = 17$

$\sqrt{(20 - 18)^2 + (1 - 0)^2}$

$= \sqrt{(2)^2 + 1} = \sqrt{5}$

$\sqrt{(19 - 18)^2 + (1 - 0)^2} = \sqrt{(1 + 1)}$

$\sqrt{2} = 1.414$

$\sqrt{(15 - 18)^2 + (1 - 0)^2} = \sqrt{(3)^2 + (1)}$

$= \sqrt{10} = 3.16$

$\sqrt{(23 - 18)^2 + (1 - 0)^2}$

$\sqrt{(5)^2 + (1)^2} = \sqrt{26} = 5.099$

$\sqrt{(10 - 18)^2 + (0 - 0)^2}$

$= \sqrt{64} = 8$