Puention 1: A mobile phone renvice provider unes a program that computes the monthly bill curtomers on follows: Minimum Rs 300 fin up to 120 calls. phis Re 1 Per call for the next 20 calls. plus. Rn 0.80 Per call for the next 50 calls. plus. Rr 0.40 Per call for any call beyond 220 Denign tent comes for their program Solution: let variable A for number of plane calls. first, we partition the domain of input's as valid input values and invalid values, getting the following - 17 TOX 1 = { (A): 1 < A < 120} 12 = { <A}: 121 < A < 190} 13 = { (A): 191 ( A (12)0} 14 = { (A): A> 220} 15 2 { (A) : ALO}

Now then test comes can be designed from the above derived clannes, talking one test can from oach clannes. Such that the fort cares covers maximum valid input - clannes and reparate test cares for each should class.

Invalid class.

The test cares are shown below:

1 - 1 - 1	1一十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	1 11 1	1
Test Core	Input value	Experted	clames over
TD	a muAdo e	- Output 100	1 /
		A STATE OF THE STA	earren
redir	Son of mer	300 R	milan kadi
2	145	325 Rn	12
3	210 205	392 Rs	(13)
4	250 001	352Rn	(A)4)
5	-2	invalid	15
200 St. 200 St			13
		92 H	
57 张			1.15 - 144 1.15 - 144

Scanned with CamScanner

Question 2: A Program read players record with the following detail and prints a team-wine lint containing players name with their batting, arenage.

Player name (max 30 characters) Team name (max 20 chanacters) Balling avarrage 1 21 = sular humand Derign toot ones for thing program uning Bre, rebust testing and worker-come testing methods.

Solution: 10 Pent cames using sove mince there are three variables player name and batting avariage but there in no boundary for batting avariage values. no the total number variable 2 and total number of Ant cares will be 4m+1=

The met of boundaries value shown below. For ploper name, I de monde Min value = 1 change ten Mint value = 2 11 Max value on 3000 min som som Max value = 290 cm xom ) smoon me Nominal value = 15 11 sponova smitter -) for toom name Min value = 1 character Mint value = 2 4 Max value = 20 4 mins monos tial @: notice Hax value : 19 mg some mycle whomen Nominal value = 10 4 1000 volues no the this minde a mobile 2 and total minimum of that cares will be appropriate

Expected Output	Print ( Mayer and team name	with batting avanage)		II				#		
Batting	hh		hh	48	55	6	44	26	56	22
(trong th	70		40	70	70	4	. 2	92	20	40
Team Name	rudenoniden	AL.	richto molen	Bashudebun	Crefonce.org	<b>x</b>	R+	MonKeltla great	Oneamers trived an main	Опропетивел
length	7		a	28	62	15	45	14	14	915+2
player name	и		Ra	Abababababababab Ktba ba ca doledat	Informationgain and mutual exenctine	ababababbede Kty	mutual exploration	Bashun Sasnagnou	Rohul Ki bru'o Khasa	Даварпертосемние
toteme	न	1	63	5	6	45	9	X	<b>∞</b>	0

10 test comes using noburt tenting Since there are two variobles player name and team name, the total number of fort come well be 6n+1=13 The met of boundary value's in shown below; -> for player name Min value = 1 chonacter. Mint value = 2 character. Min value = 0 on null choractor. value = 30 character. Max+ value = 31 character. Max value = 29 character. Nominal value = 15 charator

-) for the team name.

Min value = 1 character.

Mint value = 2 Character.

Min- value = D on Null charactor.

Max value = 20 chanacter. Maxt value = 21 chanacter. Max value = 19 character. Nominal value = 20 character. voluce = 1 chomoclese. value = 2 characters. value - a on mill character. value 30 abouaction value - as chanceton. value = 29 change Con. lumist value = 15 about cos. the the learn name Min value = 2 character.

of Expected Dutput	Paint ( Player and team name usith bathing avonage)		0			the state of the s	invalid input	n		Print ( Player and learn name well	
Batting	hb	44	94	55	6	5.0	22	23	73	55	56
length (t. nome)	10	40	70	10	4		7.0	9	. 10	2	20
Rem name	Servicetic	Monumiakaf	Perpetuals	Monu fighte	×		Rangowiran		Mpno Riolern	Ry	Nomunbanirab/ Kadobe
length	ᆏ	7	30	63	15		Q	45	31	15	51
Ployen name	ע	RK	Bashundhor Lightek Company Limited	John Hugneschero not the vilen.	ababababababa	Marin 118		Kakababukanomes	Sinozvaiopnondolek nomotonenabujen	Not Spreing comes	Comiubookneyk
Tent cone	4	67	60	5	ed.		8	0/	) H =	4	6)

Tent carron wring worter care terting. Since there are two variables, player name and team name, the total num of tert care will be  $5^n = 25$ 

	ipt Come	Player name	length P. name	Team name		batting ovg.	Expected Output
	1	π	1	Comillreiders	10	44	Pruint (Playor and team name which avanage)
	2	Ra	2	Pinpointak	10	44	11
	3	ababababab ababababab ababababab	30	Pakabikoth	20	34	η
	4	myname in mol mynudalin any Problemna	and the same of th	Abutowhamo	10	44	ll .
	5	ababababab bkhva	15	R	1	5	
	6	domar noner bondh	15	Иm	2	44	и
(	>	Siboji kelba gkh	14	Khelanikak- hilaniamkh	20	54	t j
	- '	Separate Total	1	1	- h		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1. 1 . 1		

Question 3: A University in admitting atachenth In a profesional course subject to the - Sollowing condition: 'no should (in @Marka in Java > 20 mos tos you 6 Mark in C++ > 60 1 Marks in ODAD > 60 more to months? Total in all three nubjects >, 220 OR total in Java and ett > 150mg ou tom If the aggregate mark of an chigable condidates more than 240, he will be digable for schotostip courane, otherwine he will be elijable for normal course. The priograme reach the marks in three subject and genariates the following ontputh: 15 - 3 72 5 3405 120 10 = 1 6010 0 3 = 5 = 51 290}

Mot objoble in the ment of the contract 1 Eligible for wholenship couring. Dégiale for normal courme. Denign tort come for this programe uning equivalence clan tenting technique Solution: let variable and fora manky Java c for manks c++ O for manks in DOAD -first we partition the domain of input on valid imput values and invalid value getting the following clarmen: ada de se 1, = {0 < 7> 20 } morto en estado de se la seconda de seconda de se la seconda de se la seconda de seconda de seconda de se la seconda de 1 12 = 3 40>: 7>60} somme lemman alt of 13 = { 20 >: 0 > 60 } ... and 14 = { (J, e, 0) ! J+ e+0 > 220} 15 = { (7, e> : 7+e>, 150} = {(3,0,0): 3+0+D>,240}

The state of the s	100				
Tent Come	Java (7)	(++ (c)	00AD(0)		clonner covered
ID				Dutput	by the texterne
,	90	60	60	Eligible for Normal coun	11, 12, 13, 15,
2	90	60	80	u ,	11, 12, 13, 14,
3.	90	80	90	Elizible for	11, 12, 13, 14,15
4	50	80	90	Not eligible	14
5	90	50	90	rl	18, 1, 13, 11, 10,112
6	80	80	50	i i	11, 12, 19, 11, to. 112
7	20	60	80	ч	11, 12, 13, 11, 110, 112
	4	-1			20,00