```
>> % This is an example use case as printed from the Command Window, when the routine in
RandomSample is run.
>> a=input('Was instrument-1 in site-1 used? Enter yes (y) or no (n):', 's');
if a=='y'
b=input('How many groups of samples?');
name=input('Please enter the names of the sample groups with commas in between:', 's');
c=input('Are the numbers of replicates the same for each group? Enter yes (y) or no (n):',
's');
if c=='y'
n=input('How many replicates in each group?');
a2=ones(b,n);
for i=1:b
a2(i,:)=randperm(n,n);
end
disp('Randomized order of samples are below:')
disp(name)
disp([a2'])
elseif c=='n'
m=input('Enter the number of samples in each group, in a [] with spaces:');
a2=zeros(b, max(m));
for i=1:b
a2(i,1:m(1,i))=randperm(m(1,i), m(1,i))';
end
a2c=num2cell(a2);
namecell=strsplit(name, ',');
T=cell2table(a2c');
T.Properties.VariableNames = namecell;
disp('Randomized order of samples are below:')
disp(T)
end
elseif a=='n'
disp('This instrument in above indicated site was not used to analyse these samples.')
end

Was instrument-1 in site-1 used? Enter yes (y) or no (n):y
How many groups of samples?6
Please enter the names of the sample groups with commas in between:paracetamol, ibuprofen,
flurbiprofen, aspirin, dexketoprofen, naproxen
Are the numbers of replicates the same for each group? Enter yes (y) or no (n):n
Enter the number of samples in each group, in a [] with spaces:[52 45 17 36 12 28]
Randomized order of samples are below:
```

paracetamol	ibuprofen	flurbiprofen	aspirin	dexketoprofen	naproxen
51	12	8	8	5	5
37	25	7	33	12	27
52	26	16	19	6	14
42	44	5	21	3	21
19	14	11	2	9	24
46	10	4	22	8	1
7	9	12	14	11	25
14	4	15	27	2	13
29	2	14	1	7	12
16	40	6	6	1	11

36	19	3	34	4	26
2	35	9	24	10	6
10	6	10	30	0	18
30	11	17	5	0	22
49	7	2	31	0	3
13	1	13	13	0	17
48	45	1	12	0	9
20	22	0	10	0	7
9	21	0	23	0	8
38	29	0	32	0	28
11	13	0	11	0	15
17	34	0	4	0	10
21	38	0	20	0	23
26	36	0	18	0	4
45	24	0	7	0	20
40	18	0	36	0	19
22	28	0	17	0	16
18	37	0	35	0	2
12	39	0	25	0	0
39	5	0	16	0	0
3	41	0	3	0	0
32	30	0	29	0	0
24	32	0	28	0	0
43	27	0	26	0	0
28	16	0	9	0	0
34	17	0	15	0	0
23	8	0	0	0	0
50	43	0	0	0	0
47	15	0	0	0	0
44	20	0	0	0	0
31	42	0	0	0	0
41	3	0	0	0	0
33	31	0	0	0	0
6	33	0	0	0	0
5	23	0	0	0	0
27	0	0	0	0	0
4	0	0	0	0	0
8	0	0	0	0	0
1	0	0	0	0	0
15	0	0	0	0	0
25	0	0	0	0	0
35	0	0	0	0	0

>>