

exp.6.m

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1 disp("Name:Abrohneel Roy");
2 disp("Roll No.:727822TUCY003");
3 disp("Experiment Name:COMPUTE PERMUTATIONS AND COMBINATIONS FUNCTIONS");
4 disp(" ")
5 disp("Question 1")
6 disp(" ")
7 v=[112 2345 65743]
8 perms(v)
9 size(perms(v),1)
10 disp(" ")
11 disp(" ")
12 disp("Question 2")
13 disp(" ")
14 a=[1 2 3 4 5 6]
15 b=[1 2 3 4]
16 size(perms(a),1)*size(perms(b),1)
17 disp(" ")
18 disp(" ")
19 disp("Question 3")
20 disp(" ")
21 size(perms([1 2 3 4 5 6]),1)*1
22 disp(" ")
23 disp(" ")
24 disp("Question 4")
25 disp(" ")
26 factorial(4)/factorial(2)
27 disp(" ")
28 disp(" ")
29 disp("Question 5")
30 disp(" ")
31 v=uint16([10 20 30]);
32 C=nchoosek(v,uint16(2))
33 size(C,1)
34 disp(" ")
35 disp(" ")
36 disp("Question 6")
37 disp(" ")
38 v=['abcd']
39 C=nchoosek(length(v),1)
40 size(C,1)
41 disp(" ")
42 disp(" ")
43 disp("Question 7")
44 disp(" ")
45 n=26
46 r=5
47 a=nchoosek(n,r)
48 disp(" ")
49 disp(" ")
50 disp("Question 8")
51 disp(" ")
52 n=12
53 r=3
54 a=nchoosek(n,r)
55 disp(" ")
56 disp(" ")
57 disp("Question 9")
58 disp(" ")
59 n=3
60 a=factorial(n)
```