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| **Test ID** | **TEST DESCRIPTION** | **INPUT** | **OUTPUT** |
| Test\_01  Permutation | Taken two inputs n and r. If we give the value of n as 0, then the output will come as 0. | nPr = [n! /(n-r)!]  n=0 | Zero |
| Test\_02  Permutation | If we give same values to both n and r, then the output will give error. | nPr = [n! /(n-r)!]  n=r | Error |
| Test\_03  Combination | Taken two inputs n and r. If we give the value of n as 0, then the output will come as 0. | nCr = [n! / r! (n-r)!]  n=0 | Zero |
| Test\_04  Combination | If we give same values to both n and r, then the output will give error. | nCr = [n! / r! (n-r)!]  n=r | Error |
| Test\_05  Geometry shape- Circle | If we give the value of r as 0, then the result will be zero which an error. | Area=Pi\*r\*r  Perimeter=2\*Pi\*r  R=0 | Zero(Error) |
| Test\_06  Geometry shape- Rectangle | If we assign 0 as value to either l or b, then the result will be zero which is an error. | Area=l\*b  Perimeter=2(l+b)  l = 0 or b =0 | Zero(Error) |