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//0/Hybrid Mode:- Both Value + Address have been passed at a time
//Contrast: Return stmt can only return 1 value
        #include<stdio.h>
        int areaperi ( int r, float *a, float *p )
       {
               *a = 3.14 * r * r;
               p = 2 * 3.14 * r;
        }
        int main()
        {
               int radius=4;
               float area, perimeter;
               // printf ( "\nEnter radius of a circle " );
               // scanf ( "%d", &radius );
               areaperi (radius, &area, &perimeter); //Imp-Value + Address are passed
               printf ( "Area = %f", area );
               printf ( "\nPerimeter = %f", perimeter );
        }
//1/ Non-Recursive Function
        #include<stdio.h>
        int
               factorial (int x)
        {
               int f = 1, i;
               for (i = x; i \ge 1; i--) //n(n-1)*(n-2)*(n-3)*...(n-n)
               f = f * i;
               return (f);
        }
        int main()
        {
               int a=5, fact;
               // printf ( "\nEnter any number " );
               // scanf ( "%d", &a );
```

```
fact = factorial ( a );
                printf ( "Factorial value = %d", fact );
        }
//2/ Recursive Function for Factorial problem
        #include <stdio.h>
        int rec (int x)
        {
                int f;
                if (x == 1)
                return (1);
                else
                f = x * rec (x - 1); //Recursion: Calling the same function repeatedly
                return (f);
        }
        int main()
        {
                int a=1, fact;
                // printf ( "\nEnter any number " );
                // scanf ( "%d", &a );
                fact = rec ( a );
                printf ( "Factorial value = %d", fact );
        }
```