DOKUZ EYLUL UNIVERCITY

Faculty of Engineering

Electrical and Electronics Engineering

EED 1005 Introduction to Programming   Laboratoary#7

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Preliminary Work:

TASK 1:

A function that calls itself either directly or indirectly is a(n) **recursive** function.

 - A non-static variable defined outside any block or function is a(n) **global** variable.

 - The **rand** function is used to produce random numbers.

 - For a local variable in a function to retain its value between calls to the function, it must be declared with the **static** storage-class specifier.

TASK 2:

a) int   g(void) \\ 2 function cannot be nested

    {

         printf("Inside function g\n ");

    }

        int h(void)

    {

         printf("Inside function h\n");

    }

b) int sum(int x, int y)\\ The result is not saved

```
{

int result;

result=x+y;

return result;

}
```

c) int sum (int n)

```
   {

       int result ;

       if (n==0 )

   {

       return 0;

   }

        else {

        result= n+sum(n-1);

        return result;

   }

   }
```

d) void f(float a)\\ a is defined two times

```
   {

     printf("%f",a);

   }
```

e) void product(void)\\void is not recycled function

```c
{
    int a , b , c , result;
printf("Enter three integers : ");\\ Put semicolon after printf
scanf("%d%d%d",&a,&b,&c);
result =a*b*c;
printf("Result is %d",result);
}
```