

- 1) Write a recursive function to find the result of multiplying a number m by another number n using addition only.
- 2) Write a recursive function to find the result of division using subtraction only.
- 3) Write a recursive function to find the Sum of elements in an array using recursion.
- 4) How many times the factorial function is invoked for factorial(6)?
- 5) How many times the fib function is invoked for fib(6)?
- 6) Show the output of the following two programs:

```
void f(int n)
{
    if (n > 0)
    {
        cout << n << " ";
        f(n - 1);
    }
}
int main()
{
    f(5);
}
```

```
void f(int n)
{
    if (n > 0)
    {
        f(n - 1);
        cout << n << " ";
    }
}
int main()
{
    f(5);
}
```

- 7) What is wrong in the following function?

```
void f(double n)
{
    if (n != 0)
    {
        cout << n;
        f(n / 10);
    }
}
int main()
{
    f(1234567);
}
```