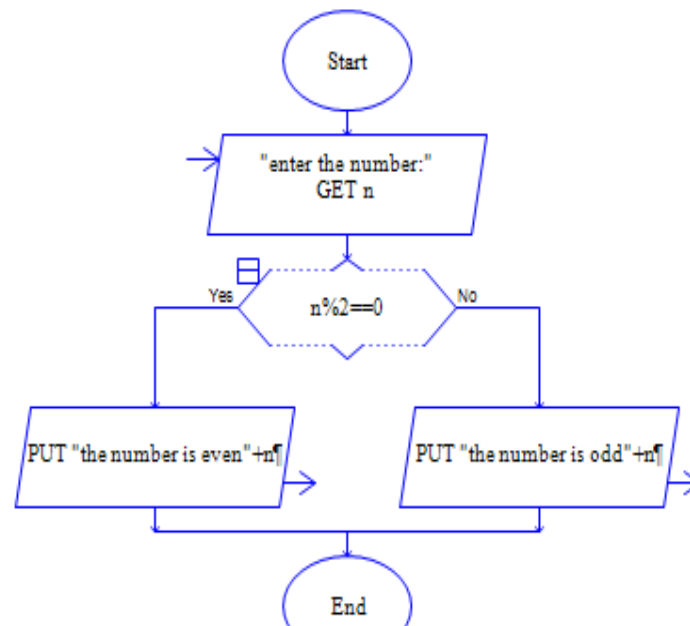PROGRAMS USING RAPTOR:

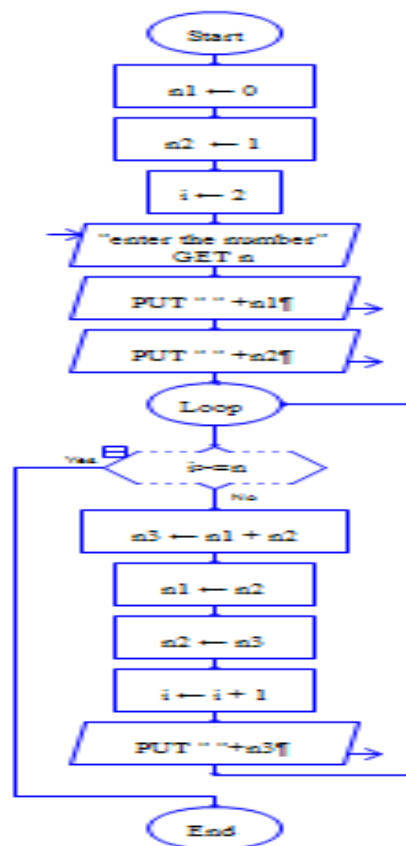1. Finding whether the given integer is odd or even?

```
                           Start

                    "enter the number:"
                          GET n

              Yes         n%2==0         No

  PUT "the number is even"+n      PUT "the number is odd"+n

                            End
```

2. Finding the given integer is positive or negative?

```
                           Start

                    "enter the number"
                          GET n

              Yes          n>=0          No

  PUT "the number is              PUT "the given number is
  positive number"+n                negative "+n

                            End
```
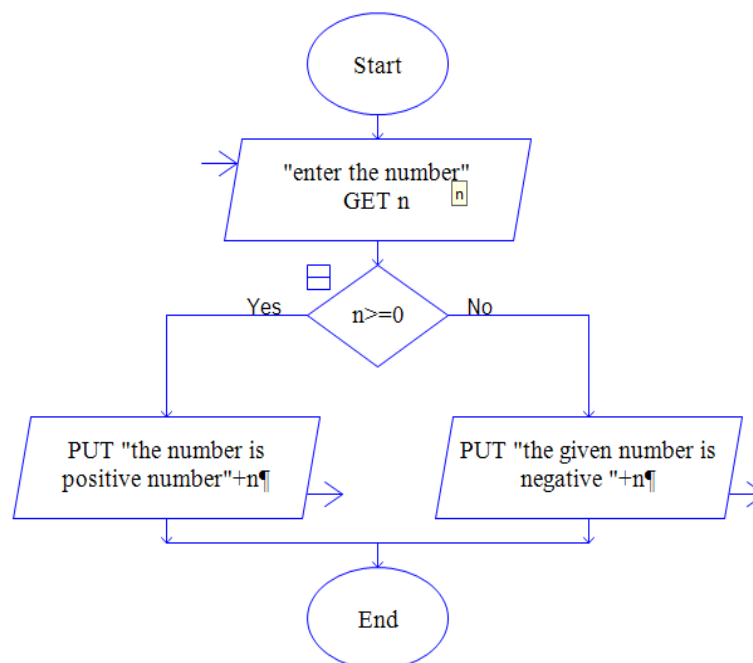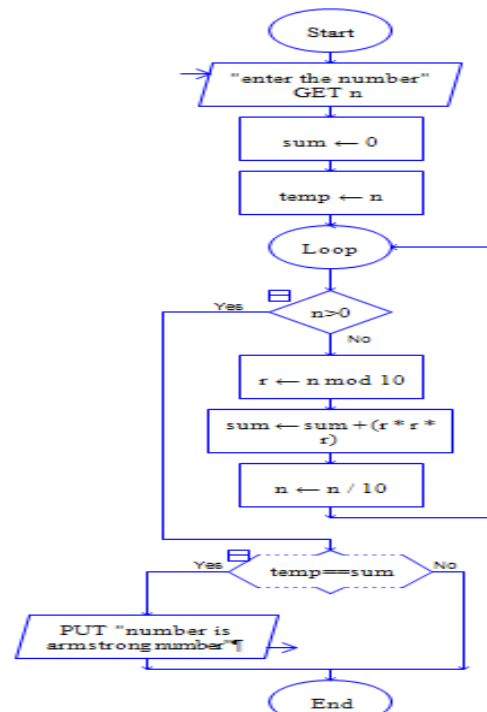
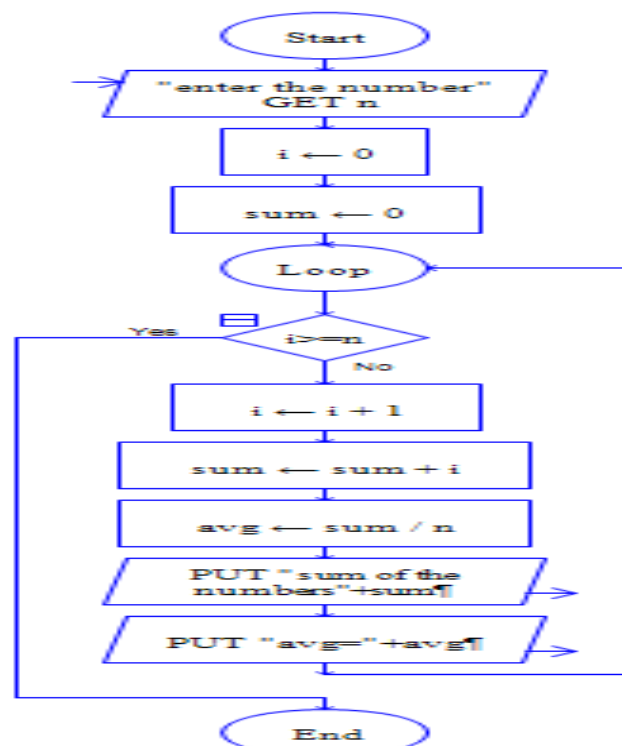3. Generation of Fibonacci series 0,1,1,2,3,5,8......n ?

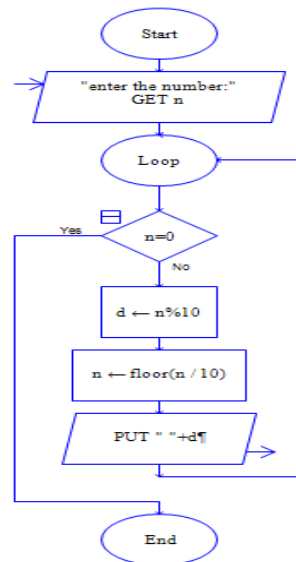4. Program for finding the factorial of a given number (product series) ?
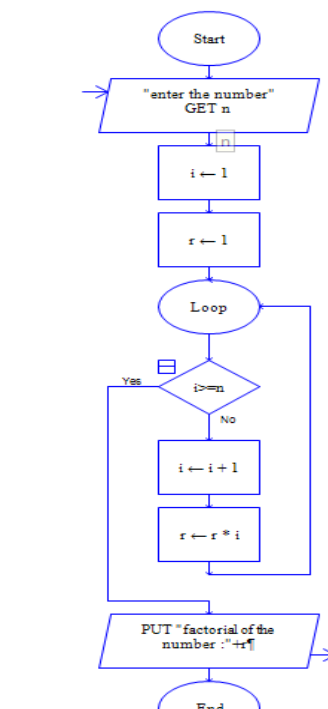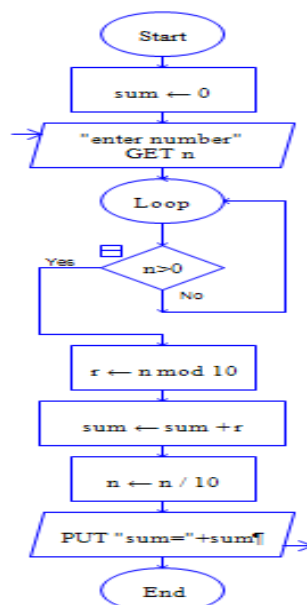
5. Finding the given number is Armstrong or not?

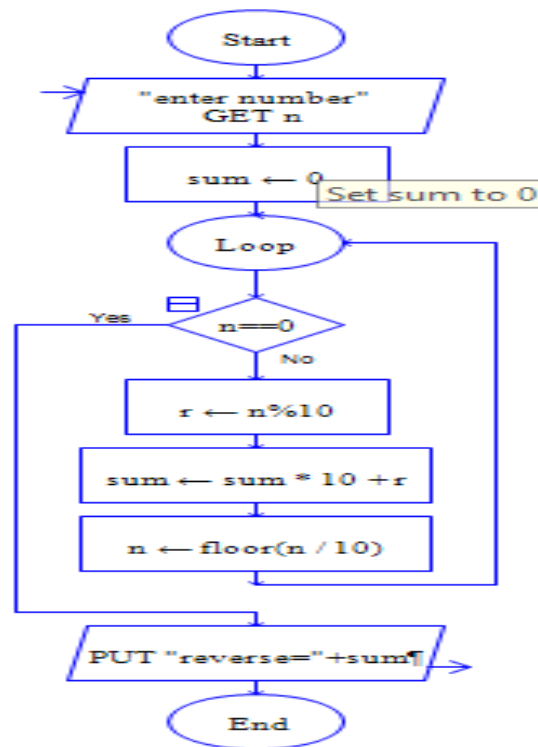6. Summing up the n numbers and finding its average ?

7. Printing digits of an integer number ?

```
                    ┌─────────┐
                    │  Start  │
                    └────┬────┘
                ┌────────┴────────┐
        ───────▷│"enter the number:"│
                │     GET n        │
                └────────┬────────┘
                    ┌────┴────┐
                    │  Loop   │◀──────────┐
                    └────┬────┘           │
                      ┌──┴──┐             │
             Yes      ╱  n=0 ╲            │
         ◀────────────╲     ╱            │
                       ╲───╱             │
                        │No              │
                ┌───────┴───────┐        │
                │   d ← n%10     │        │
                └───────┬───────┘        │
                ┌───────┴───────┐        │
                │ n ← floor(n/10)│        │
                └───────┬───────┘        │
                ┌───────┴───────┐        │
                │ PUT " "+d     │────────┘
                └───────┬───────┘
                    ┌───┴───┐
                    │  End  │
                    └───────┘
```

8. Summing up the digits of an integer numbers ?

```
                    ┌─────────┐
                    │  Start  │
                    └────┬────┘
                ┌────────┴────────┐
                │    sum ← 0       │
                └────────┬────────┘
                ┌────────┴────────┐
        ───────▷│ "enter number"  │
                │     GET n        │
                └────────┬────────┘
                    ┌────┴────┐
                    │  Loop   │◀──────────┐
                    └────┬────┘           │
                      ┌──┴──┐             │
             Yes      ╱  n>0 ╲            │
         ◀────────────╲     ╱            │
                       ╲───╱             │
                        │No              │
                ┌───────┴───────┐        │
                │  r ← n mod 10  │        │
                └───────┬───────┘        │
                ┌───────┴───────┐        │
                │ sum ← sum +r   │        │
                └───────┬───────┘        │
                ┌───────┴───────┐        │
                │   n ← n/10     │        │
                └───────┬───────┘        │
                ┌───────┴───────┐        │
                │PUT "sum="+sum  │────────┘
                └───────┬───────┘
                    ┌───┴───┐
                    │  End  │
                    └───────┘
```

9. Reversing the digits of the integer numbers ?

```
                        Start

            "enter number"
              GET n

              sum ← 0
                        Set sum to 0
                Loop

        Yes
              n==0
                        No

              r ← n%10

        sum ← sum * 10 + r

        n ← floor(n / 10)

    PUT "reverse="+sum

                End
```

10. Finding the given integer is positive or negative ?

```
                        Start

            "enter the number"
               GET n        n

        Yes              No
              n>=0

    PUT "the number is          PUT "the given number is
    positive number"+n          negative "+n

                End
```
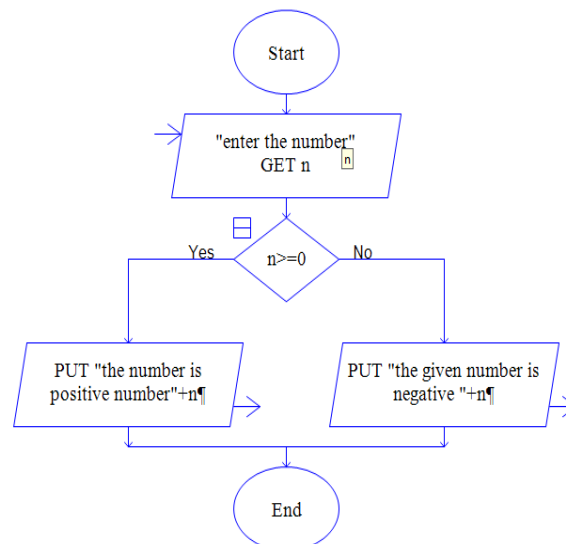
11. Swapping two numbers with a temporary variable?