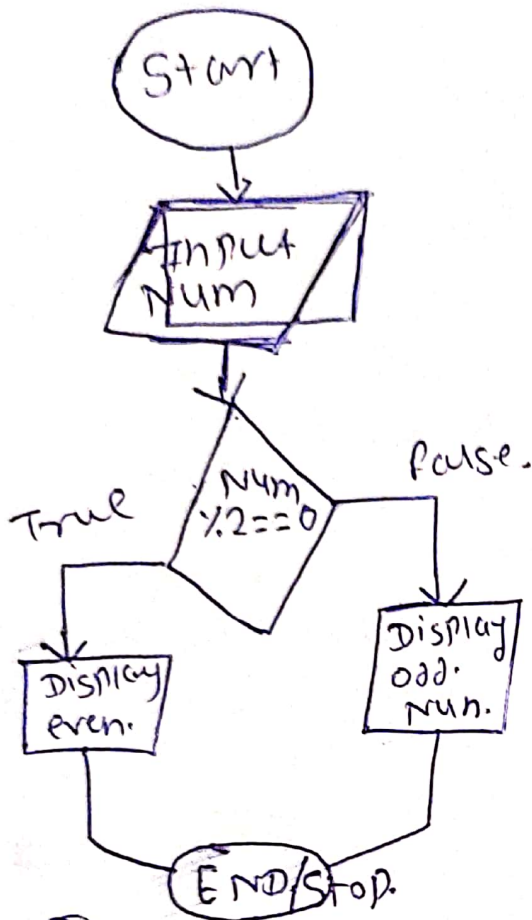


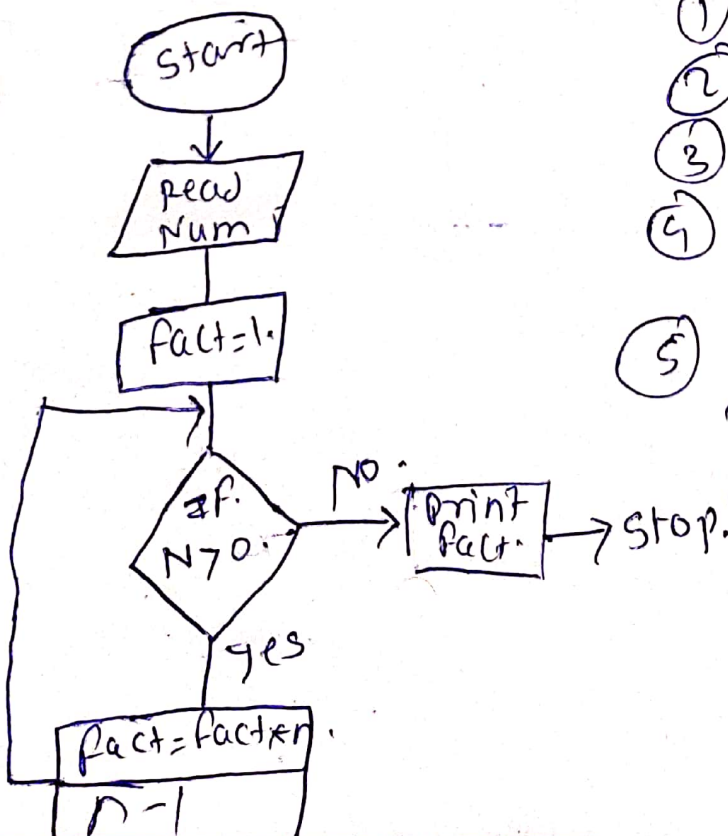
Assignment No. 1

① check if the given number is Even or odd.



- ① Start
- ② To take a input or Read a number.
- ③ condition, IF Num. is divisible by 2. then display even No.
- ④ IF Num. is Not divisible by 2 the display odd No.
- ⑤ Stop.

② write a Java program to Find the Factorial of a given number.



- ① Start.
- ② Read the input of num.
- ③ Declare the variable fact.
- ④ IF Num > 0. it will ~~fact~~ multiply the fact to Num.
- ⑤ then after Num-1 & goto return the con. N > 0.
- ⑥ IF N = 0 then Print the fact
- ⑦ Stop.

③ factorial of No. using Recursion.

a) Start

b) Enter No.

c) Give pass No. to Punction.

```
int Fact (n).
```

```
{ if (n==1)
```

```
    return 1;
```

```
    else
```

```
    return n * Fact (n-1); }
```

d) END.

④ swap two number without using 3rd variable.

→ 1. Start

2. Enter num1, ~~two~~ num2.

3. $\text{num1} = \text{num1} + \text{num2}.$

4. $\text{num2} = \text{num1} - \text{num2}.$

5. $\text{num1} = \text{num1} - \text{num2}.$

6. Display num1 & num2.

7. end.

⑤ Check given no. is positive or -ve.

1. start.

2. Enter Num.

3. If (Num \geq 0)

4. condⁿ true \rightarrow Num is +ve.

5. condⁿ False \rightarrow Num is -ve.

6. end.

6] Given number is leap year or NOT.

→ ① Start programme.

② take input of year

3. check leap year = $\text{Given year} / 4$.

4. If remainder is 0, Then print → It is leap year.

5. Else print → It is non leap year.

6. End programme.

7. Print No. 1 to 10 without using loop

→ 1. Start.

2. Create array of size 10 & (store value) - 10

3. Display value of each index.

4. end.

8] print the digits of given number

→ 1. Start.

2. Enter num & while (Num > 0).

3. $i = (\text{Num} \% 10)$.

4. display i

5. $\text{Number} = \text{Num} / 10$.

6. End.

- 9) print all the factors of given number
1. start
 2. Enter num.
 3. For int $i = 1$ to $i \leq n/2$ & increment i by 1.
 4. if $(n \% i == 0)$.
 5. If cond true display i
 6. End.

- 10) sum of digit of given Number

→ ① start.

2. Enter the Num ~~3~~, ~~sum = 0~~.

~~3. sum = 0.~~

4. while (Num $\neq 0$). then

{ int $i = \text{Num} \% 10$.

sum = $i + \text{sum}$

Num = $\text{Num} / 10$. }

5. Display sum.

- 11) Find the smallest num of abc.

1. start.

2. Enter Num a, b, c.

3. if $a < b$ & $a < c$.

4. display a.

5. else compar the (b < c). ^{is} cond true. &

6. if b is smaller than c. then display b

7. else cond is false display c.

8. end.

12) Add Number without using arithmetic operator.

1. Start.
2. Enter Num1 & Num2
3. while (Num2 != 0).
4. carry is equal to Num1 bitwise AND Num2
5. Num1 = Num1 bitwise XOR Num2
6. Num2 = carry << 1.
7. display Num1
8. End.

13) Reverse Given Number.

1. Start.
2. Enter Num
3. while (Num > 0).
4. $i = \text{Num} \% 10$.
5. display i.
6. $\text{Num} = \text{Num} / 10$.
7. End.

14) Find GCD of Two given Number

1. Start.
2. Enter Num1, Num2.
3. $\text{GCD} = 1$ & i
4. For $i = 1$ to $i \leq \text{num1}$ & $i \leq \text{num2}$ & increment i by 1.
5. if $(\text{num1} \% i == 0) \&\& (\text{num2} \% i == 0)$.
6. display $\text{GCD} = i$ 7. End.

15. LCM of two given number

- 1. Start.
- 2. Enter Num1, Num2.
- 3. $LCM = (n1 \times n2) / \text{HCF}$
- 4. while true.
- 5. if $(LCM \% num1 == 0 \ \& \ LCM \% num2 == 0)$ then display LCM & break.
- 6. if not then increment LCM by 1.
- 7. End.

17. Check given number is palindromic or not.

- 1. Start.
- 2. Enter Num.
- 3. original Num = Num.
- 4. while $(num \neq 0)$,
 - { int remainder = $num \% 10$;
 - reverse ~~Num~~ Num = $reverse \times 10 + remainder$
 - $num /= 10$;
 - }
- 5. if $(original\ Num = reverse\ Num)$ then display given no. is palindromic.
- 6. if condition false given no. is not palindromic.

19. Print even number series.

1. Start.
2. Set $i = 2$.
3. while (true).
4. display i .
5. $i = 2 + i$
6. end.

20. Print odd Number

-
1. Start.
 2. Set $i = 1$.
 3. while True.
 4. display i .
 5. $i = 2 + i$
 6. end.

18. Print all prime factor of Number

-
- ① Start
 2. Enter Num.
 3. For $i = 2$ to $i \leq \text{num}$ & i increase by 1.
 4. if $(\text{num} \% i == 0)$.
is prime = 1.
 5. For $j = 2$ to $j \leq i$ & j increase by 1.
 6. if $(i \% j == 0)$ set is prime = 0 & break.

7. if (is prime == 1) then display i.

8. end.

16. write a java program to LCM of two given Number using the factors method.

