

PROGRAMMING FUNDAMENTAL ASSIGNMENT

1. Write pseudocode for Fibonacci series of number 15.

ANS

```
1) START
2) READ N=15
3) N1=0, N2=1, i=1
4) Display N1, N2
5) While i<=N-2
    N3=N1+N2
    DISPLAY N3
    N1=N2
    N2=N3
    i++
6) STOP
```

2. Write an algorithm for Fibonacci series of number 15.

ANS

```
STEP 1: START
STEP 2: DECLARE VARIABLES N1=0 N2=1 AND N3=0
STEP 3: ENTER THE NO OF TERMS OF FIBONACCI SERIES TO BE PRINTED
STEP 4 : PRINT N1 AND N2 STEP 5 USE LOOP FOR THE FOLLOWING STEPS
    N3=N1+N2
    PRINT N3
    N1=N2 N2=N3
    INCREASE THE VALUE OF i EACH TIME BY 1
STEP 6: END
```

3. Write a Pseudocode for determining the est of three numbers. Example: 34, 12 and 65. So the highest is 65.

ANS

```
1. START
2. INT NUM1, NUM2, NUM3
3. INPUT NUM1
4. INPUT NUM2
5. INPUT NUM3
6. IF NUM1>NUM2 && NUM1>NUM3 THEN
7. OUTPUT NUM1+ "IS HIGHEST"
8. ELSE IF NUM2>NUM3 && NUM2>NUM1
9. OUTPUT NUM2= "IS HIGHEST"
10. ELSE 11. NUM3+" IS HIGHEST"
12. END
```

4. Please write the algorithm of question No 3.

ANS

```
STEP 1: START
STEP 2: DECLARE VARIABLES AND ASSIGN VALUES TO NUM1, NUM2, NUM3
STEP 3: RUN A CONDITIONAL STATEMENT TO CHECK NUM1 IS GREATER
        THAN NUM2 AND NUM3
STEP 4: IF TRUE, THEN DISPLAY NUM1 AS HIGHEST
STEP 5: IF FLASE GOTO THE NEXT CONDITIONAL STATEMENT AND CHECK
        NUM2 IS GREATER THEN BOTH NUM1 AND NUM3.
STEP 6: IF TRUE DISPLAY NUM2 AS HIGHEST
STEP 7: IF FLASE DISPLAY THE ELSE STATEMENT
STEP 8: END
```