Presentation

By Abdul Rehman

Activity

Show and tell

Topic of show and tell:

Fibonacci sequence

What is fibonacci ?

A fibonacci is an integer in infinite sequence 1,1,2,3,5,8,13… did you notice the number coming after the two ones are the addition of the two immediately preceding ones .

For example :

1+1=2,1+2=3,2+3=5 and so on…

So what is fibonacci sequence ?

FA fibonacci sequence is a sequence which is obtained when the two numbers are added together and their sum is equal to the third number.

For example:

0,1,1,2,3,5,8...etc.

So this is the fibonacci sequence .

Can fibonacci be obtained by multiplication ?

No , it can not be obtained using multiplication because as we have seen in previous slide that fibonacci sequence is obtained by only adding the two numbers and the third to be their sum.It is defined as

$F(n)=F(n-1)+F(n-2)....$

- **Example Calculation**:
  - $F(0)$
  - $F(1)=1$
  - $F(2)=1+0=1$
  - $F(3)=1+1=2$
  - $F(4)=2+1=3$

What is our main idea of studying fibonacci ?

- That how fibonacci is related to discrete structures and how can we use it to do complex tasks like recursive algorithms , computer graphics ,and many more .
- Second goal is to get good marks in show and tell.