**VAR AND DYNAMIC KEYWORDS IN C#**

**VAR KEYWORD:**

* VAR WAS INTRODUCED IN C# 3.0.
* VAR KEYWORD IS USED TO STORE ANY TYPE OF DATA IN ITS VARIABLE.
* VALUE OF VAR VARIABLE IS DECIDED AT COMPILE TIME.
* WE HAVE TO INITIALIZE THE VARIABLE WITH **VAR** KEYWORD.
* IF WE WANT TO CHECK THE TYPE OF VALUE WHICH IS STORED IN VAR VARIABLE THEN WE CAN USE **GetType()** METHOD WITH THE VAR VARIABLE.
* WHEN WE INITIALIZE THE VAR VARIABLE WITH SOME VALUE THEN WE CANNOT CHANGE THE VALUE OF VAR VARIABLE WITH SOME OTHER DATA TYPE VALUE.
* WE CAN USE ALL THE METHODS OF PARTICULAR TYPE VALUE WHICH IS STORED IN VAR VARIABLE.
* INTELLISENSE HELP IS AVAILABLE FOR THE VAR TYPE OF VARIABLES. THIS IS BECAUSE, ITS TYPE IS INFERRED BY THE COMPILER FROM THE TYPE OF VALUE IT IS ASSIGNED AND AS A RESULT, THE COMPILER HAS ALL THE INFORMATION RELATED TO THE TYPE.
* VAR VARIABLES CANNOT BE USED FOR PROPERTY OR RETURN VALUES FROM A FUNCTION. THEY CAN ONLY BE USED AS LOCAL VARIABLE IN A FUNCTION.
* WE CANNOT USE VAR VARIABLE AS A FUNCTION PARAMETER.
* VAR KEYWORD IS OF VALUE TYPE.

**DYNAMIC KEYWORD:**

* DYNAMIC WAS INTRODUCED IN C# 4.0
* DYNAMIC KEYWORD IS ALSO USED TO STORE ANY TYPE OF DATA IN ITS VARIABLE.
* VALUE OF DYNAMIC VARIABLE IS DECIDED AT RUN TIME.
* INITIALIZATION IS NOT MANDATORY WHEN WE DECLARE A VARIABLE WITH DYNAMIC KEYWORD.
* IF WE WANT TO CHECK THE TYPE OF VALUE WHICH IS STORED IN DYNAMIC VARIABLE THEN WE CAN USE **GetType()** METHOD WITH THE DYNAMIC VARIABLE.
* WHEN WE INITIALIZE THE DYNAMIC VARIABLE WITH SOME VALUE THEN WE CAN CHANGE THE VALUE OF DYNAMIC VARIABLE WITH SOME OTHER DATA TYPE VALUE.
* INTELLISENSE HELP IS NOT AVAILABLE FOR DYNAMIC TYPE OF VARIABLES SINCE THEIR TYPE IS UNKNOWN UNTIL RUN TIME. SO INTELLISENSE HELP IS NOT AVAILABLE.
* DYNAMIC VARIABLES CAN BE USED TO CREATE PROPERTIES AND RETURN VALUES FROM A FUNCTION.
* WE CAN USE DYNAMIC VARIABLE AS A FUNCTION PARAMETER.
* DYNAMIC KEYWORD IS OF REFERENCE TYPE.