

Sameer Sir Classes, Jabalpur
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STORAGE CLASS

VARIABLES

1. DATA TYPE (int , float , char , ...)
 2. STORAGE CLASS

STORAGE CLASS

1. SCOPE :- LOCAL , GLOBAL
 2. MEMORY :- RAM , CPU-REGISTER
 3. DEFAULT VALUE :- GARBAGE VALUE . ZERO

TYPE OF STORAGE CLASS

- 1. AUTOMATIC (LOCAL) STORAGE CLASS**
 - 2. EXTERNAL (GLOBAL) STORAGE CLASS**
 - 3. STATIC STORAGE CLASS**
 - 4. REGISTER STORAGE CLASS**

e.g. **auto** **int** **a ;**
storage **data** **variable**
class **type** **name**

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1. AUTOMATIC (LOCAL) STORAGE CLASS

keyword :- auto

e.g. :- auto int a ; // int a;

- 
 - 1. SCOPE :- LOCAL
 - 2. MEMORY :- RAM
 - 3. DEFAULT VALUE :- GARBAGE VALUE

```
#include<stdio.h>
int main()
{
    auto int a = 3;
    printf(" %d\n" , a ); // 3

    {
        auto int b = 5;
        printf(" %d\n" , a); // 3
        printf(" %d\n" , b); // 5
    }
    printf(" %d\n" , a ); // 3
    printf(" %d " , b ); //error :- undefined symbol 'b'
}
```

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```
#include<stdio.h>
void fun();

int main()
{
    auto int a = 3;
    printf(" %d\n ", a); // 3
    fun();
}
void fun()
{
    printf(" %d\n ", a); // error :- undefined symbol 'a'
}

-----  

t = fun( a );
-----  

int fun( int p )
{
    int b;
    b = p * p ;
    return( b );
}
```

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2. REGISTER STORAGE CLASS

keyword :- register

e.g. :- **register int i ;**

register char i ;

1. **SCOPE :- LOCAL**
2. **MEMROY :- CPU - REGISTER**
3. **DEFAULT VALUE :- GARBAGE VALUE**

AUTOMATIC STORAGE CLASS

hard disc ---> ram ---> cpu - register

REGISTER STORAGE CLASS

hard disc ---> cpu - register

3. EXTERNAL (GLOBAL) STORAGE CLASS

keyword :- extern

e.g. :- **extern int a ;**

1. SCOPE :- GLOBAL
2. MEMORY :- RAM
3. DEFAULT VALUE :- ZERO

```
#include<stdio.h>
```

```
int a = 3; // global
void fun();
int main()
{
    printf("%d\n", a); // 3
    fun();
}
void fun()
{
    printf("%d\n", a); // 3
}
```

```
#include<stdio.h>
void fun() ; // extern void fun();

int main()
{
    extern int a ; // ONLY DECLARATION

    printf(" %d\n " , a); // 3

    fun();

}

int a = 3; // global
void fun()
{
    printf(" %d\n " , a ); // 3
}
```

4. STATIC STORAGE CLASS

keyword :- static

e.g. :- static int a ;

- 1. SCOPE :- LOCAL or GLOBAL**
- 2. MEMORY :- RAM**
- 3. DEFAULT VALUE :- ZERO**

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```
#include<stdio.h>
void fun();
int main()
{
    fun();
    fun();
    fun();
}
void fun()
{
    int i = 1;
    printf("%d\n", i);
    i++;
}
```

ans :-

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```
#include<stdio.h>
```

```
void fun();  
  
int main()  
{  
    fun(); // 1  
    fun(); // 2  
    fun(); // 3  
}  
void fun()  
{  
    static int i=1;  
    printf(" %d\n", i);  
    i++;  
}
```