

## Syntax of function:

[Access Specifier] [Access Modifier] (ruturn type/Void) (function name) (parameter list)

Body of function

public static void main (string args[])

2

2



## \* Accuso Specifiem

(a) Public. Public data and methods can be acessed everywhere within as wells as ordside the class in which they were declared.

It can be inherited.

It can be inhauted.

(b) Protected : can be occessed conjuntere within their class, other classes in their package and sub classes in other packages.

packages > class > methods lata menbeus icseonezi

(c) default (friendly / Puckage): Only in the same package

(d) Private: Private data & menter methods
can Dry be accessed in the class
in which they they were declared.
It is the most secure access
specificus.

It cannot be inherited.



## \* Access Mudifiens:

Any static method or variable is of class type and it can be directly Static & called on accessed within any Kunction In the same class without help of any object. A non statie function og variable is required to be called thereigh object

bron any static function of the class.





class fun public static void (alc () int 6 = 20; 2 Sopin (a+6); public void acc () Public static void moin (String args []) fun obj = new fun(); 06. acc();

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\* Johnal pomameters The parameters of Apren in the Junction definition statement Function definition a statement are called formal Parameters. public static void Sum (inta, int b)  $\begin{cases} ints = a + b, \rightarrow 33 \\ Sopln(s), \end{cases}$ 

\* A dual Parameter of The parameters well ch appear in function calling statements are called a shall parameter. Eg: public static void main (string args []) int M = 17;
Actual farameters
int y = 16;
Sum (0,9);  $\rightarrow 33$ Sum (10,20);  $\rightarrow 30$ 

It tells about the \* Return data type o data type of the Value that has to be returned to the calling function. Egint Sum ()

5

5

\* soturn: It is used to return a value to the calling function.



\* Note°

A method cannot return more than one value at a lime. It sends the control back to the calling function.

Class Numbers int sum (inta, intb int s = on + b; 3 VELVEN S. Pulohic static void main (String args LT) Numbers Obj = new Mymbers (); 06j.Sum, (16,20)

tactorial of 2 = 2×1 & WAP to point the factorial of 5. factorial of 1 = 1 class factorial 5 x 4 x 3 x 2 x PSVM (\_\_\_\_) ?; nt f=1; for (inti = 1; i < = 5; i++) f= f\*i; 3×2=6 3 Sopln(f); 4x6=(29) 5)(29)=(120)



```
class factous
  PSVM (String areys [7]
    for (inti-1; i(=10; i++)
      if (10°/6 i = = 0)
```



```
Design a class Numbers as follows:
   void factorial(): to input a no. through
                Keryboo and A print its
                Jactorial.
   Void prime (): to input a no. therough
                   Keyboard & check & parint
whether its a prime hower
  Also weite main method to input 10 no.s wing
  above functions & print factorial of each
  no- & check buther it is prime or not.
   import java util. Scanner;
   class Numbers
    void factorial ()
    Scanner obj = new Scanner (System.in);
Sopln ("Enter ano.");
int n = obj. next Int ();
int r = 1
      intf=1
```

```
for ( int i= 1; i <= n; i++)
 f = f * i
50pln (f);
void prime ()
Scanner obj= new Scanner (System.in);
 int n= objinextInt();
int c= D;
for (int i=1; i (= n; i++)
  if (n %, i = = 0)
 if (c=-2)

Sobln(n+" is a prime no");
 Sobln (n+" w not a prime ro.");
public static void main (String args)
 Scanner obj= new Scanner (System in);
Numbers ob = new Numbers ();
  for (int i=1; i <= 10; i++)
  tob.factorial();
{ob.prime();
```



will be sent by tomorrow.