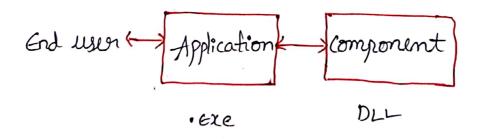
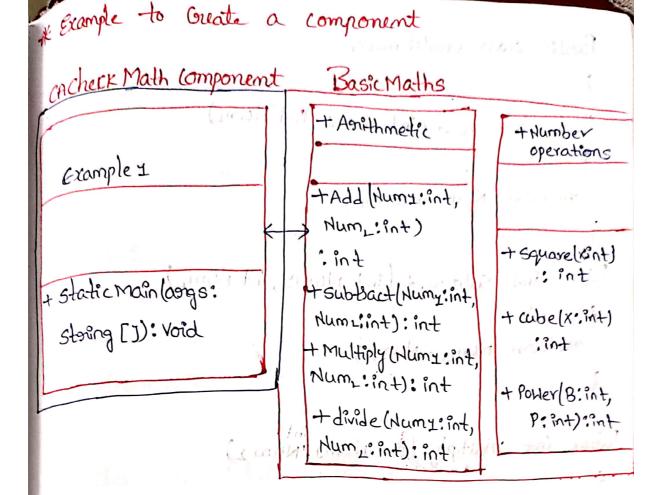
Complonent Development in ctt

Note:

- is A component is reusable piece of code.
- (ii) Component in . net is called as a class library of Assembly.
- (iii) component in Java is Called as a package.
- in End user will never Interact with component.
- W) other Applications of other components will Interact with components.
- (vi) of component in . net will Exit in the form of a DLL.
- Vis To create a component in ret me use classlibrary Template.



(COTS)



of Greating the Component's

The to Visual Studio click on file, click on new, click on project, sloorch for class library template select class library (net frame Work) with cff programming lapurage Template. click on next. Type the class library Hame (Basic Maths) next. Type the class library Hame (Basic Maths) choose the location to save, click on create. choose the location explorer change the class name of the solution explorer change the class name.

Committee and of mountain

```
Public class of withmetic
   Public int Add (int Numy, int Humz)
    neturn Namy + Numz;
  Public int Subtract (int Numy, int Num)
   netion Numy-Numy;
Public int multiply lint Numy, Num 2)
   neturn Num + Num,
Public int divide (int Numy, int Num)
  networn Numy/Num,
-) Create a class with the name number
  operations change the accessibility of class to
 Publice. Haite the following code.
 Public class Number operations
Public int square (int x)
  netwn X*X
```

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```
Public int (ube lintx)

{

Stetum square (x) * X;

}

Public int PoHen (int B, int p)

{

int R=4;

for (int i=1; i=1; i=p; i++)

R=R*B;

stetum R;

}
```

- -> Build the solution this will create a du With the name Basic Maths. DLL.
- -) Greating Console application and Consuming basic Maths. DIL.
- name cachecemath component.
- If no solution Explosion select the solution click With night mouse button, click on add neference. Go to the location Where Basic Math. II is available, select the DIL, click on add, click on ok. White the following code.

```
is hell adus this silver!
. Using Basic Maths;
 namespace CA checkmath Component
   Class Example I
                      (4 to 12 Et fai) result for silder
    Static Void Main (string Mangs)
   Assithmetic Obj 1 = nEW Assithmetic ();
   Number operations objz=new Number operations ();
   int x,Y's
  Console. Monite ("Enter Any two Numbers");
  X= Condert. To Int 3 L (console Read Line U);
 Y = Convert. To Int32 (console. Read Line (s);
 Console. Hariteline ("sum Ps" + obit. Add (x,Y));
Console. Whiteline ("Difference is" + Objy. Subtact (x,Y));
 Console Writchine ("Product is" + Obj I. Muttiply (x,y));
 (onsole HaiteLine ("Orustient is" +Obj. divide (I))),
Console. Horita ("Enter a number to find square"
  and cube values");
X= Convent. To Int 32 (Console. Read Line ()); .
Console. Wanteline ("Square Value is" + obje. Square(x));
Console. Horiteline ("(ube Value ig" + obj2. (ube (x));
Console, Horite ("Enter Any Tho Number to find power");
  dera
X= Convert. to 9nt 32 (console. Readline());
>= Convert. to int 32 (Console. Read line());
```

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console. Wanteline (X+" To the POWER" + * + "is" +
obj 2. Power (X, y));

* Example to Greate a component by using froperties to perform database operations.

CLIBDB operations

Emp Details

- -Emp2D : int
- -Exame: Storing
- -Designation: string
- DOJ : date
- Salary: double
- Dept No: int
- + PEmp2D: int, set and get
- + PErame: String, set and get
- + P Designation: string, set Eiget

+ppoj: date, set & get

+psalary: double, set Eget

+ Dept No: Port, Set Egget

- Sql Connection con
- Sql Command and
- Sql DataReader DR

+ Add Employee(): int

+ update Employee Wint

+ Delete Employeel): int

+ Find Employee (): And

+ Emp Details U: