## INHERITANCE

192211067

Inheritance is one in which a new class is created that inherits properties of already exist class. It supports concept of code reusability and reduces length of code in object oriented - programming.

Types: 1- single inheritance 2. Multi-level inheritance 3. Multiple inheritance 4. Hybroid inheritance 5. Hierarchial inheritance.

## EXAMPLE PROGRAM (CPP)

# include < iostream-h>
using namespace < std; class A § int a, b; public: void add (int or, int y) b= 4; contec (asbecendl; 33; class B: public A &
public:
public:
print(int n, int y) { add (x,y); {3}; ent main () 2 B bis
br. print (5,6);

## POLYMORPHISM

Polymorphism is that in which we can perform a task in multiple forms or ways. It is applied to the functions or methods. Polymorphism allows object to decide which form of function to implement at compile-time as well as run-time.

## EXAMPLE:

a. add(6,5); b. print(); 3

# include <iostream h) using namespace std; class A & int a, b, c; void add (int or, int y)  ${\{ \alpha = n \}}$ g coutec "add of a+b is: " << (a+b) << endl; void add (int x, int y, int z) coutec Radd of x+y+z is: "<<(a+b+c)<<endly I virtual void proint ()

2 cout LC " class A's method is nurning " << endl;
22: class B: public A & 2 cout < c " class B's method is running" < cendl; public: void proint () int main ()