OOPS

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Class Object

Class: -

Class is user defined data type, where we can bind data member and member function together in single unit is called as class.

OR

Class is collection of related data member and member function together in single unit is called as class.

Syntax: -

class ClassName

{

data member;

member function();

member function();

member function();

};

; is mandatory in C++ only.

1. data member: -

It indicates information of an object, information can be acc no, name, emailed etc.

In C++, all data member must be private.

1. Member function():-

In indicates opearation on the object. Operation can be

deposit()

withdraw()

Syntax: -

AccessSpecifier returtype functionName(datatype para1,……,……)

{

Statement;

[return value]

}

AccessSpecifer: -

It indicates accessibility of data member and member function inside the class as well as outside the class.

There are 3 Types of AccessSpecifer: -

1. Private member: -

Such member will be accessible only inside the class. Generally, all data member must be private.

e.g: -

private: int accno;

private: string name;

private: int bal;

1. Public member: -

Such member will be accessible only inside the class as well as outside the class. Generally, all data function inside the class must be public.

e.g: -

1) public: void deposit(int amt)

{

int bal=bal+amt;

cout<<”Balance is = “<<bal;

}

2) public: void sum(int a, int b)

{

int s=a+b;

cout<<”Sum is = “<<s;

}

3) public: int square(int n)

{

int s=n\*n;

return s;

}

4) public: float sum(int a, int b, float c)

{

float s=a+b+c;

return s;

}

5) public: void mean(int a, int b, int c)

{

Float m=(a+b+c)/3;

cout<<”Mean is = “<<m;

}

6) public: float area(int r)

{

return (3.14\*r\*r);

}

7) public: float sum(int a, float b, int c)

{

return (a+b+c);

}

1. Protected member: -

Such member will be accessible inside the class as well as all derived classes.

Naming Convention of OOPS (Standard Rules of OOPS Programming): -

1. All header files must be in lower case.
2. First latter of class must be in Upper case.
3. First latter of data member must be in lower case.
   1. private: int accno;
   2. private: string name;
4. First latter of member function must be in lower case and rest can be upper or lower.
   1. getData()
   2. setData()
   3. deposit()
   4. showData()