

LECTURE-3

OBJECT ORIENTED PROGRAMMING C++

12/07/2020

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HEADER FILES AVAILABLE IN C++

- **iostream:** iostream stands for standard input-output stream. This header file contains definitions to objects like **cin, cout, cerr** etc.
- **iomanip:** iomanip stands for input output manipulators. The methods declared in this files are used for manipulating streams. This file contains definitions of setw, setprecision etc.
- **fstream:** This header file mainly describes the file stream. This header file is used to handle the data being read from a file as input or data being written into the file as output.

INPUT/OUTPUT

- We will use **cin>>** to take input from user.
- For example: **cin>>a;**
- We will use **cout<<** to show the output on the screen.
- For example: **cout<<a; cout<<“Hello”;**

EXAMPLE |

```
include<iostream>
using namespace std;
class Basic{ public:
    void print(){ cout<<“Hello”;
                  cin>>a;
                  cout<<a;
    }
};

};
```

```
int main()
{ Basic obj;
  obj.print();
  Return 0;
}
```

EXAMPLE 2

```
include<iostream>
using namespace std;
class CAT{    string food;
public:
void eat()
{
    cin>>food;
    cout<<food; }
};
```

```
int main()
{ CAT obj;
obj.eat();
Return 0;
}
```

EXAMPLE 3

```
include<iostream>
using namespace std;

class Test {
    int height;
    double weight;
    public:
        void function1() { height = 5; }
        float function2() { weight = 50; }
};
```

```
int main()
{ Test T1;
    T1.function1();
    cout<<T1.height;
    T1.function2();
    cout<<T1.weight;
    Return 0;
}
```

EXAMPLE 4

```
include<iostream>
using namespace std;
class Person {
    public:
        int height, weight;
        void function1()
        { cout<<height<<weight;
        }
};

int main()
{ Test T1;
    T1.height=10;
    T1.weight=5;
    T1.function1();
    Return 0;
}
```

SPECIAL CHARACTER

Speci al code	Meaning
“\n”	New line
“\t”	Tab to the next position
“\\”	Single backslash
“\\\"	Double backslash
“ \' “	Single quote
“ \” “	Double quote
endl	End of line

EXAMPLE 5

```
include<iostream>
using namespace std;
class Basic{ public:
    void print(){
        cout<<“Hello”;
        cout<<“Farhana”;
    }
};

int main()
{ Basic OI;
OI.print();
Return 0;
}
```

QUESTION & ANSWER

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NEXT LECTURE

- Before Lecture 4 you will revise LOOPS, CONDITIONAL STATEMENTS, BREAK, LABEL
- Revision of Lecture 1-3
- Practice to print 1-100 numbers.
- Problem solving with Loops and Conditional statements.