

PRN: 2020BTEIT00041

1) Default constructor. One argument and two argument constructor.

CODE:

```
1 //PRN: 2020BTEIT00041
2
3 //Complex Class with default and parameterized Constructors
4
5 #include<iostream>
6 using namespace std;
7
8 class Complex
9 {
10 private :
11     int real;
12     int imaginary;
13 public:
14     Complex()
15     {
16         real = 0;
17         imaginary=1;
18     }
19     Complex(int b)
20     {
21         real=0;
22         imaginary=b;
23     }
24     Complex(int a,int b)
25     {
26         real = a;
27         imaginary =b;
28     }
29     void printdata()
30     {
31         cout<<real<<"+"<<imaginary<<"i"<<endl;
32     }
33 };
34
35 int main()
36 {
37
38     Complex c1,c2(6),c3(3,4);
39
40     c1.printdata();
41     c2.printdata();
42     c3.printdata();
43
44     return 0;
45 }
```

OUTPUT:

```
Windows PowerShell
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PS C:\Users\omgha> cd "C:\Users\omgha\AppData\Local\Temp\" ; if ($?) { g++ tempCodeRunnerFile.cpp -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
0+1i
0+6i
3+4i
```