



**Pimpri Chinchwad Education Trust's
Pimpri Chinchwad College of Engineering & Research
Ravet, Pune
IQAC PCCOER**



Innovations/Best Practice by The Faculty in Teaching and Learning

Event Title	Decoder
Participants	Second Year Students (Div. A, B, C)
Venue / Location	Respective Second Year Classroom
Organizing Team	Faculty
Faculty Coordinator	Dr. Vijay A. Kotkar / Dr. Yogeshwari V. Mahajan
Academic Year / Sem.	2023-24 (SE Semester-I)
Date	SE-A: 24/08/2023, SE-B: 25/08/2023, SE-C: 25/08/2023

Objective of the Event/Activity Conducted:

To make programming environment more user friendly.

Event / Activity PPT'S/ Photos:

```

1 // C++ program to demonstrate operations on complex numbers
2 #include <iostream>
3 #include <string>
4 using namespace std;
5 struct complex
6 {
7     int x, y;
8 };
9 complex()
10 {
11     x=0;
12     y=0;
13 }
14 // Addition of two complex numbers
15 complex &operator +(complex &u, complex &v)
16 {
17     complex add;
18     add.x = u.x + v.x;
19     add.y = u.y + v.y;
20     return add;
21 }
22 // Subtraction of two complex numbers
23 complex &operator -(complex &u, complex &v)
24 {
25     complex sub;
26     sub.x = u.x - v.x;
27     sub.y = u.y - v.y;
28     return sub;
29 }
30 // Multiplication of two complex numbers
31 complex &operator *(complex &u, complex &v)
32 {
33     complex mul;
34     mul.x = u.x * v.x - u.y * v.y;
35     mul.y = u.x * v.y + u.y * v.x;
36     return mul;
37 }
38 // Display function
39 void display(complex &c)
40 {
41     cout << "Real part: " << c.x << endl;
42     cout << "Imaginary part: " << c.y << endl;
43 }
44 int main()
45 {
46     complex c1, c2, c3;
47     c1.x = 2; c1.y = 3;
48     c2.x = 4; c2.y = 5;
49     c3 = c1 + c2;
50     display(c3);
51     c3 = c1 - c2;
52     display(c3);
53     c3 = c1 * c2;
54     display(c3);
55     return 0;
56 }
    
```

```

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Terminal
Please enter the real value for first no. (x1)
2
Enter the imaginary value of the first no. (y1)
3
Please enter the real value for second no. (x2)
4
Enter the imaginary value of the second no. (y2)
5
First complex no is --2+3i
Second complex no is --4+5i
Choose the operation to be performed--
(+ Addition)
(- Subtraction)
(*) Multiplication
+
Addition of the given complex nos. is --6+8i
Do you wis To Perform Operation Again? -- (Y/N)
Y
Choose the operation to be performed--
(+ Addition)
(- Subtraction)
(*) Multiplication
-
Subtraction of the given complex nos. is --2-i
Do you wis To Perform Operation Again? -- (Y/N)
Y
Choose the operation to be performed--
(+ Addition)
(- Subtraction)
(*) Multiplication
*
Multiplication of the given complex nos. is --2+31i
Do you wis To Perform Operation Again? -- (Y/N)
    
```

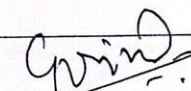
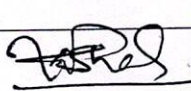
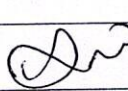
Outcome of the Event/Activity Conducted:

Decoder is a mobile coding IDE and platform, where students can run projects, code and learn algorithms by programming on mobile. Build and deploy projects straight from the mobile and integrate with Git (Gtihub, bitbucker) and sync with vs code, use of code compilations to make coding easy.

Outcome: To increase students' interest in programming.

Peer Review: Any remarkable suggestion/comments by Peers:

It has been observed that students are enjoying this activity & nicely participated.

<p>1) Do you think this activity has helped in effective content delivery?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>2) Do you think this activity was relevant to the topic delivered?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>3) Do you think this activity can be incorporated for more topics?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>4) Do you think this activity can be further enhanced from design and execution point of view?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>5) Do you think this is reproducible?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p>	<p>1) Do you think this activity has helped in effective content delivery?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>2) Do you think this activity was relevant to the topic delivered?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>3) Do you think this activity can be incorporated for more topics?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>4) Do you think this activity can be further enhanced from design and execution point of view?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>5) Do you think this is reproducible?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p>	<p>1) Do you think this activity has helped in effective content delivery?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>2) Do you think this activity was relevant to the topic delivered?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>3) Do you think this activity can be incorporated for more topics?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>4) Do you think this activity can be further enhanced from design and execution point of view?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p> <p>5) Do you think this is reproducible?</p> <p><input checked="" type="checkbox"/> (Yes, No, Maybe)</p>
<p>Sign: </p>	<p>Sign: </p>	<p>Sign: </p>

Dr. G.R. Suryawanshi

V.P. Latke

Swati Nikan

