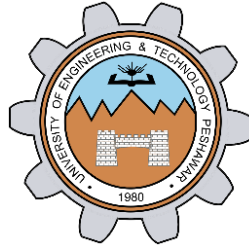


Object Oriented Programming

LAB ACTIVITIES (C++)



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Class Section: **A**

“On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work.”

Submitted to:

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December 16, 2022

Department of Computer Systems Engineering
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ACTIVITY 1.4.1:

Output:

```
E:\Object-Oriented-Programming\Lab-1\Task-2.exe
Original P1= (0, 0)
Updated P1= (2, 3)
Original P2= (5, 2)
Updated P2= (3, 6)
-----
Process exited after 0.07663 seconds with return value 0
Press any key to continue . . .
```

ACTIVITY 2.4.1:

Output:

```
C:\Users\Administrator\Downloads\Documents\Act 8.4.1.exe
Enter Complex Number:
Enter real part: 5
Enter imaginary part: 6
c1 = 5 + 6i

Enter Complex Number:
Enter real part: 2
Enter imaginary part: 7
c2 = 2 + 7i

The addition is:      7 + 13i
The subtraction is:  3 - 1i
The product is: -32 + 47i
-----
Process exited after 53.71 seconds with return value 0
Press any key to continue . . .
```

ACTIVITY 4.5.1:

Output:

```
C:\Users\Administrator\Downloads\Documents\Act 8.4.1.exe
Employ Data
Name:
Department:
Salary: 0
Service of years:      0

Enter Employ's name:   Awais Saddiqui
Enter Employ's Department: DCSE
Enter Employ's Salary: 10000
Enter Employ's Service: 2
Employ Data
Name:   Awais Saddiqui
Department:
Salary: 10000
Service of years:      2

In Custom Copy Constructor [Deep]
Employ Data
Name:   Awais Saddiqui
Department:
Salary: 10000
Service of years:      2

In Custom Copy Constructor [Deep]
Employ Data
Name:   Awais Saddiqui
Department:
Salary: 10000
Service of years:      2

Object destroyed!Object destroyed!Object destroyed!
-----
Process exited after 41.22 seconds with return value 0
Press any key to continue . . .
```

ACTIVITY 5.4.1:

Output:

```
C:\Users\Administrator\Downloads\Documents\Act 8.4.1.exe
Point: (2 , 3)
Radius of Circle:      4
Circumference of Circle: 25.1336
Area of Cylinder:      261.389
Volume of Cylinder:     643.42

-----
Process exited after 10.21 seconds with return value 0
Press any key to continue . . .
```

ACTIVITY 6.3.1:

Output:

```
C:\Users\Administrator\Downloads\Documents\Act 8.4.1.exe
Enter f? 8
Enter s? 7
Enter t? 5

first: 8
second: 7
third: 5

The maximum is: 8

-----
Process exited after 18.68 seconds with return value 0
Press any key to continue . . .
```

ACTIVITY 7.4.1:

Output:

```
E:\Object-Oriented-Programming\Lab-7\Activity-7.4.1.exe
Point    X coordinate = 4      Y coordinate = 6
X-coordinate = 2      Y-coordinate = 3
Radius = 5
Area of Circle = 0
Area of Cylinder = 1.58101e-322
Volume of Cylinder = 0
Radius of Cylinder = 6
-----
Process exited after 0.1263 seconds with return value 0
Press any key to continue . . .
```

ACTIVITY 8.4.1:

Output:

```
C:\Users\Administrator\Downloads\Documents\Act 8.4.1.exe
d1 : Distance = 2 feet and 9 inches
d2 : Distance = 3.5 feet and 10 inches
operator+(d3) : Distance = 6.5 feet and 7 inches
operator+= : Distance = 6.5 feet and 7 inches
d2 is not Greater than d3
d2 is less than d3
d2 is not >= than d3
d2 is <= d3
d4: Distance = 6.5 feet and 7 inches
d3 is equal to d4
d2 is not equal to d4
Distance = 3.5 feet and 11 inches
Distance = 6.5 feet and 8 inches
Distance = 6.5 feet and 7 inches
Distance = 6.5 feet and 6 inches

-----
Process exited after 8.797 seconds with return value 0
Press any key to continue . . .
```