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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **Course Name:** | **Software Design & Analysis** | **Course Code:** | **CS3004** |
| **Program:** | **BS (CS)** | **Semester:** | **Fall 2023** |
| **Duration:** | **10 min** | **Total Marks:** |  |
| **Paper Date:** |  | **Weight:** |  |
| **Section:** | **BCS-5G** | **Page(s):** |  |
| **Exam Type:** | **Quiz 1** |  |  |
| **Student : Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Roll No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | | |

Refactor (improve/rewrite) the following code using the object-oriented features:

class Doc {

...

int comSal() {...}

};

class Eng {

...

int comSal() {...}

};

class Prof {

...

int comSal() {...}

};

int total(Doc\* d[], int m, Eng\* e[], int n, Prof\* p[], int o) {

int sum = 0;

for (i=0; i < m; ++i)

sum = sum + d[i]->comSal();

for (i=0; i < n; ++i)

sum = sum + e[i]->comSal();

for (i=0; i < o; ++i)

sum = sum + p[i]->comSal();

return sum;

}