EC2010-COMPUTER PROGRAMMING LAB-08

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CODE

```cpp
#include <iostream>
#include <string>
using namespace std;

class Course {
private:
    double Beginner;
    double Intermediate;
    double Advanced;
    double Expert;
    double EnglishPayment = 2;

public:
    Course(double aBeginner, double aIntermediate, double aAdvanced, double aExpert){ // setter
        Beginner = aBeginner;
        Intermediate = aIntermediate;
        Advanced = aAdvanced;
        Expert = aExpert;
    }

    double getLevelPayment(string level) { // getter
        if (level == "Beginner")
            return Beginner;
        else if (level == "Intermediate")
            return Intermediate;
        else if (level == "Advanced")
            return Advanced;
        else if (level == "Expert")
            return Expert;
        else
            return 0;  // Default case
    }

    int getEnglish(){
        return EnglishPayment;
    }

    double calculatePayment(string level, bool english) { // Payment calculation
        double basePayment = getLevelPayment(level);
        if (english)
            return basePayment + (EnglishPayment / 2);
        else
            return basePayment;
    }
};

int main() {
    cout << "   Welcome to Online Course Registration System!" << endl;
    // Display the details
    cout << "\tCourse name \t\tLevel \t\tWhat you will pay"  << endl;
    // Machine learning Course details
    cout << "\n\tMachine Learning \n\t\t\t\tBeginner        $2 \n\t\t\t\tIntermediate    $2.65 \n\t\t\t\tAdvan
    // Artificial Intelligence Course details
    cout << "\n\tArtificial Intelligence \n\t\t\t\tBeginner        $2 \n\t\t\t\tIntermediate   $2.65 \n\t\t\t\t
    // Web development Course details
    cout << "\n\tWeb development \n\t\t\t\tBeginner        $2 \n\t\t\t\tIntermediate   $2.65 \n\t\t\t\tAdvanc
    // Software Engineering Course details
    cout << "\n\tSoftware Engineering \n\t\t\t\tBeginner        $2.5 \n\t\t\t\tIntermediate   $2.65 \n\t\t\t\t\
    // Data Science Course details
    cout << "\n\tData Science \n\t\t\t\tBeginner        $1.5 \n\t\t\t\tIntermediate   $2.5 \n\t\t\t\tAdvanced
    // Graphic design Course details
    cout << "\n\tGraphic design \n\t\t\t\tBeginner        $2 \n\t\t\t\tIntermediate   $2.65 \n\t\t\t\tAdvance
    // Digital Marketing Course details
    cout << "\n\tDigital Marketing \n\t\t\t\tBeginner        $1.2 \n\t\t\t\tIntermediate   $1.5 \n\t\t\t\tAdv
    // English Course details
    cout << "\n\tSpoken English \t\t\t\t$2" << endl;
    cout << endl;

    cout << "\t========================== \n\t\tCourse \n\t==========================" << endl;
    cout << "\t1.Machine learning \n\t2.Artificial Intelligence \n\t3.Web development \n\t4.Software Engineeri
```

```cpp
70
71
72          // Course Payment details
73          Course Pay_01(2, 2.65, 2.95, 3);
74          Course Pay_02(2.5, 2.65, 3, 3.5);
75          Course Pay_03(1.5, 2.5, 2.65, 2.95);
76          Course Pay_04(1.2, 1.5, 2.5, 2.65);
77          Course spokenEnglish(0,0,0,0);
78
79          int selection, re;
80          string level;
81          string english;
82          string YesNo;
83          int i = 1;
84
85          do {
86              cout << "Registration no - " << i << endl;
87              i++;
88              cout << "Which course you like to enroll?(1-8): ";
89              cin >> selection;
90
91              if (selection == 8) {
92                  re = spokenEnglish.getEnglish();
93              }
94              else {
95                  cout << "Which level? \n\t(Beginner)\n\t(Intermediate) \n\t(Advanced) \n\t(Expert) : ";
96                  cin >> level;
97                  cout << "Do you want to enroll Spoken English course?[Y/N] : ";
98                  cin >> english;
99
100                 switch(selection){
101                     case 1 && 2 && 3: re = Pay_01.calculatePayment(level,english == "Y");
102                         break;
103                     case 4 : re = Pay_02.calculatePayment(level,english == "Y");
104                         break;
105                     case 5: re = Pay_03.calculatePayment(level,english == "Y");
106                         break;
107                     case 6: re = Pay_01.calculatePayment(level,english == "Y");
108                         break;
109                     case 7: re = Pay_04.calculatePayment(level,english == "Y");
110                         break;
111                     default:
112                         break;
113                 } // end Switch
114             }
115
116             cout << "Pay: $" << re << endl;
117             cout << "\nDo you want another Registration?[Y/N]: ";
118             cin >> YesNo;
119             cout << endl;
120
121         } while (YesNo == "Y");
122
123         cout << endl;
124
125         return 0;
126 }
```

OUTPUT

```
Welcome to Online Course Registration System!
        Course name             Level            What you will pay

        Machine Learning
                                Beginner         $2
                                Intermediate     $2.65
                                Advanced         $2.95
                                Expert           $3

        Artificial Intelligence
                                Beginner         $2
                                Intermediate     $2.65
                                Advanced         $2.95
                                Expert           $3

        Web development
                                Beginner         $2
                                Intermediate     $2.65
                                Advanced         $2.95
                                Expert           $3

        Software Engineering
                                Beginner         $2.5
                                Intermediate     $2.65
                                Advanced         $3
                                Expert           $3.5

        Data Science
                                Beginner         $1.5
                                Intermediate     $2.5
                                Advanced         $2.65
                                Expert           $2.95

        Graphic design
                                Beginner         $2
                                Intermediate     $2.65
                                Advanced         $2.95
                                Expert           $3
```

```
        Digital Marketing
                                Beginner         $1.2
                                Intermediate     $1.5
                                Advanced         $2.5
                                Expert           $2.65

        Spoken English                           $2

        ===========================
                Course
        ===========================
        1.Machine learning
        2.Artificial Intelligence
        3.Web development
        4.Software Engineering
        5.Data Science
        6.Graphic design
        7.Digital Marketing
        8.Spoken English
```

```
Registration_no - 1
Which course you like to enroll?(1-8): 4
Which level?
        (Beginner)
        (Intermediate)
        (Advanced)
        (Expert) : Advanced
Do you want to enroll Spoken English course?[Y/N] : Y
Pay: $4

Do you want another Registration?[Y/N]: Y
```

```
Registration_no - 2
Which course you like to enroll?(1-8): 8
Pay: $2

Do you want another Registration?[Y/N]: Y

Registration_no - 3
Which course you like to enroll?(1-8): 6
Which level?
        (Beginner)
        (Intermediate)
        (Advanced)
        (Expert) : Beginner
Do you want to enroll Spoken English course?[Y/N] : N
Pay: $2

Do you want another Registration?[Y/N]: N


Process returned 0 (0x0)   execution time : 45.487 s
Press any key to continue.
_
```