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REGISTRATION NO. : 2022/E/065

DATE ASSIGNED : 03 OCT 2023

QUESTION 01

Part a

SOURCE CODE

```
2
       // 2022/E/065
 3
      // EC2010
 4
      // Group: B
 5
 6
 7
      // Certificate of Authenticity:
 8
      // I certify that the code in the method function main of this project
 9
      // is entirely my own work.
      // Question 01
10
      // a)
11
12
      #include <iostream>
13
14
     using namespace std;
15
16
      int main()
    □ {
17
18
           cout << "Hello world!\nL\nets\nLe\na\nr\n\\nn";</pre>
19
          return 0;
20
21
```

<u>CDM</u>

```
Hello world!
L
ets
Le
a
r
\nn
\nn
Process returned 0 (0x0) execution time : 0.109 s
Press any key to continue.
```

Part b

SOURCE CODE

```
// Question 01
 2
       // b)
 3
       #include <iostream>
 4
 5
       using namespace std;
 6
 7
       int main()
     □ {
 8
 9
            cout << "Welcome to the Programming!\n" ;</pre>
            cout << "It's going to be an interesting module."<<"\n" ;</pre>
10
11
            return 0;
12
13
```

<u>CDM</u>

```
Welcome to the Programming!
It's going to be an interesting module.
Process returned 0 (0x0) execution time : 0.109 s
Press any key to continue.
```

Part c

SOURCE CODE

```
// Question 01
 2
 3
      #include <iostream>
 4
 5
       using namespace std;
 6
 7
       int main()
 8
     □ {
 9
           double length = 10;
10
           cout << length++ << endl;
          cout << ++length;
11
          return 0;
12
13
      }
14
```

CDM

```
10
12
Process returned 0 (0x0) execution time : 0.125 s
Press any key to continue.
```

QUESTION 02

SOURCE CODE

```
1
 2
        // 2022/E/065
       // Certificate of Authenticity:
 3
 4
       // I certify that the code in the method function main of this project
 5
       // is entirely my own work.
 6
       // Question 02
8
      #include <iostream>
9
10
       using namespace std;
11
12
       int main()
13
14
           int num ;
15
           double inch, pound , mile ;
           cout << "1 inch = 2.54 cm \n" ;</pre>
16
17
           cout << "1 pound = 0.453592 kg \n" ;</pre>
           cout << "1 mile = 1.60934 km \n";
18
19
           cout << "\nl. Inches to Centimeters \n" ;</pre>
20
21
           cout << "2. Pounds to Kilograms \n" ;</pre>
           cout << "3. Miles to Kilometers \n";</pre>
22
           cout << "\nEnter your choice (1-3): ";</pre>
23
24
           cin >> num ;
25
26
           if (num==1) {
                cout << "Enter the Inches: " ;</pre>
27
28
                cin >> inch ;
                cout << "\n" << inch << " Inches = " << inch*2.54 << " Centimeters" << endl;</pre>
29
30
31
           else if (num==2) {
32
                cout << "Enter the pounds: " ;</pre>
33
               cin >> pound ;
34
                cout << "\n" << pound << " pounds = " << pound*0.453592 << " kilograms" << endl;</pre>
35
36
           else if (num==3) {
               cout << "Enter the mile: ";</pre>
37
38
               cin >> mile ;
39
                cout << "\n" << mile << " miles = " << mile*1.60934 << " kilometers" << endl;
40
41
42
           return 0;
43
44
```

<u>CDM_1</u>

```
1 inch = 2.54 cm
1 pound = 0.453592 kg
1 mile = 1.60934 km

1. Inches to Centimeters
2. Pounds to Kilograms
3. Miles to Kilometers

Enter your choice (1-3): 1
Enter the Inches: 3

3 Inches = 7.62 Centimeters

Process returned 0 (0x0) execution time : 2.908 s
Press any key to continue.
```

CDM_2

```
1 inch = 2.54 cm
1 pound = 0.453592 kg
1 mile = 1.60934 km

1. Inches to Centimeters
2. Pounds to Kilograms
3. Miles to Kilometers

Enter your choice (1-3): 2
Enter the pounds: 5

5 pounds = 2.26796 kilograms

Process returned 0 (0x0) execution time : 3.484 s

Press any key to continue.
```

CDM 3

```
1 inch = 2.54 cm
1 pound = 0.453592 kg
1 mile = 1.60934 km

1. Inches to Centimeters
2. Pounds to Kilograms
3. Miles to Kilometers

Enter your choice (1-3): 3
Enter the mile: 7

7 miles = 11.2654 kilometers

Process returned 0 (0x0) execution time : 9.950 s

Press any key to continue.
```

CDM 4

```
1 inch = 2.54 cm

1 pound = 0.453592 kg

1 mile = 1.60934 km

1. Inches to Centimeters

2. Pounds to Kilograms

3. Miles to Kilometers

Enter your choice (1-3): 2
Enter the pounds: 4

4 pounds = 1.81437 kilograms

Process returned 0 (0x0) execution time : 14.792 s

Press any key to continue.
```

QUESTION 03

SOURCE CODE

```
1
 2
       // 2022/E/065
 3
       // Certificate of Authenticity:
 4
       // I certify that the code in the method function main of this project
 5
       // is entirely my own work.
       // Question 03
 6
 7
 8
       #include <iostream>
 9
       #include <cmath>
10
11
       using namespace std;
12
13
       int main()
     □ {
14
15
           double radius, S, V, pi=3.14;
16
17
           cout << "Enter the radius of the Sphere: " ;</pre>
18
           cin >> radius ;
19
20
           S = 4*pi*pow(radius, 2);
21
           V = (4*pi*pow(radius,3))/3;
22
23
           cout << "Surface Area of the Sphere is = " << S << endl;</pre>
           cout << "Volume of the Sphere is = " << V << endl;
24
25
26
           return 0;
27
28
```

CDM

```
Enter the radius of the Sphere: 7
Surface Area of the Sphere is = 615.44
Volume of the Sphere is = 1436.03

Process returned 0 (0x0) execution time: 1.675 s
Press any key to continue.
```