

Assignment Cover– be sure to keep a copy of all work submitted assessment To be completed by student – PLEASE PRINT CLEARLY

To be completed by student — I LEAGE I KINT OLEAKET					
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ID Number: AM2311015180	ID Number: AM2311015180				
Lecturer: MDM SITI ROBAYA BINTI JANTAN		Lab group / Tutorial group / Tutor (if applicable) SECTION 2			
Course and Course Code: PROGRAMMING FOR DATA SCIENCE (SWC2273)		Submission Date: 22/2/2024			
Assignment No. / Title: LAB WORK		Extension & Late submission: ALLO WED / DISALLOWED			
Assignment type: INDIVIDUAL	% of Assignment Mark	Returning Date:			
Penalties: 1. 10% of the original mark will be deducted for every one-week period after the submission date 2. No work will be accepted after two weeks of the deadline 3. If you were unable to submit the coursework on time due to extenuating circumstances you may be eligible for an extension 4. Extension will not exceed one week					
Declaration: I the undersigned confirm that I have read and agreed to abide by these regulations on plagiarism and cheating. I confirm that this piece of work is my own. I consent to appropriate storage of my work for checking to ensure that there is no plagiarism/ academic cheating. Signature(s):					

This section may be used for feedback or other information:

Full Name:

```
#include <iostream>
#include <cmath>
using namespace std;
int main ()
{
        int choice;
        double radius, lenght, width, area;
        const double PI = 3.412;
        cout<<" Choose a shape to calculate its area: " <<endl;
        cout << " 1. Circle " << endl;
        cout<<" 2. Rectangle " <<endl;</pre>
        cout<<" Enter your choice (1 or 2) : ";</pre>
        cin>>choice;
        if (choice == 1) {
                cout<<" Enter the radius of the circle : ";</pre>
                 cin>>radius;
                 area = PI * pow(radius, 2);
                cout<<" Area of the circle is : " <<area<<endl;
```

}

```
else if (choice == 2) {
                 cout<<" Enter the lenght and width of the rectangle : ";</pre>
                 cout<<" Enter the lenght of the rectangle : ";</pre>
                 cin>>lenght;
                 cout<<" Enter the width of the rectangle : ";</pre>
                 cin>>width;
                 if ((lenght \le 0) || (width \le 0))
                    cout<<" Invalid input . Lenght and width cannot be negative. "<<endl;</pre>
                 area = lenght * width; //Calculate area of rectangle
                 cout<<" Area of the rectangle is : " << area << endl;</pre>
        }
        else
          cout<<" Invalid choice. Please enter 1 or 2. " <<endl;
        //end of it
        return 0;
}//end of the main function
```



