

[ASSIGNMENT#02]  
[PROG FUNDAMENTALS]

BsCS

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**Q,1,a:**

**ANS:**

```
#include <iostream>
using namespace std;
int main(){
    int a, b, t;
    cout << "Enter the FIRST value: ";
    cin >> a;
    cout << "\nEnter the SECOND value: ";
    cin >> b;
    cout << "\nBefore swapping." << endl;
    cout << "FIRST value = " << a << ", SECOND value = " << b << endl;
    t = a;
    a = b;
    b = t;
    cout << "\nAfter swapping." << endl;
    cout << "FIRST value = " << a << ", SECOND value = " << b << endl;
    return 0;}
```

**Q,1,b:**

**ANS:**

```
#include <iostream>

using namespace std;

int main(){

    int sum= 5+15+25+100;

    cout << "The SUM of the given numbers: " ;

    cout << "\n Sum = " << sum << endl ;

    cout << "\nThe AVERAGE of the given numbers: " ;

    cout << "\n Average = " << sum/4 << endl ;

    return 0;}
```

**Q,2,a:**

**ANS:**

```
#include <iostream>

using namespace std;

int main(){

    float R;

    float A;

    cout << "Please enter the Radius: " ;

    cin>> R;

    A=3.14159*R*R;

    cout<<"The Area of the circle is: "<<A;

    return 0;}
```

**Q,2,b:**

**ANS:**

```
#include <iostream>
#include<math.h>
using namespace std;
int main(){
    float N;
    cout << "Please enter any number: " ;
    cin>>N;
    cout<< "Square of the input number is:  "<< N*N << endl;
    cout<< "SquareRoot of the input number is: "<< sqrt(N) << endl;
    cout<< "Cube of the input number is:  "<< N*N*N << endl;
    return 0;}
```

**Q,3,a:**

**ANS:**

```
#include <iostream>
using namespace std;
int main(){
    float R, S, V;
    cout << "Please enter the Radius: " ;
    cin>> R;
    S=4*3.14159*R*R;
    cout<<"The Surface Area of the circle is: "<<S<< endl;
    V=S/3;
    cout<<"The Volume of the circle is: "<<S;
    return 0;}
```

**Q,3,b:**

**ANS:**

```
#include <iostream>
using namespace std;
int main(){
    int a=830, b=15;
    cout << "The PRODUCT of the two integers is: "<<a*b<<endl;
    cout << "The QUOTIENT of the two integers is: "<<a/b<<endl;
    cout << "The REMAINDER of the two integers is: "<<a%b<<endl;
    return 0;}
```

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END