

Central university of Haryana

Department of computer science & engineering under SOET



Data structures and Algorithms (BT CS 301)

Lab work

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// Write a function power() which raise a number m to a number n.

// The function takes double value of m and integer value of n and returns the result.

// Use a default value of n is 2 to make the function to calculate squares when this argument when n is omitted.

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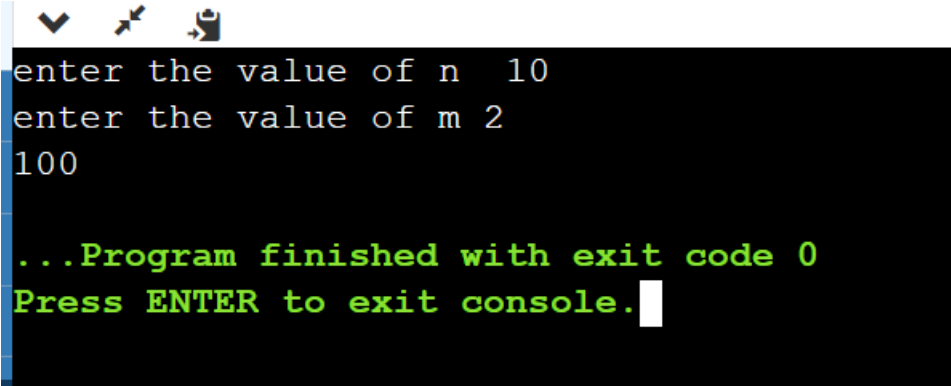
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```
1
2 #include <iostream>
3
4 using namespace std;
5 class Math
6 {
7     public:
8     int power(int n,int m=2)
9     {
10         int result=1;
11         int i;
12         for(i=0;i<m;i++)
13             { result=result*n;
14             }
15     }
16     return result;
17 }
18
19 int main()
20 {int n,m;
21   Math x;
22   cout<<"enter the value of n ";
23   cin>>n;
24   cout<<"enter the value of m ";
25   cin>>m;
26   cout<<x.power(n,m);
27
28   return 0;
29 }
```

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A terminal window with a black background and green text. At the top, there are three small icons: a downward arrow, a cursor, and a document. The text in the terminal reads: "enter the value of n 10", "enter the value of m 2", and "100" on separate lines. Below these, it says "...Program finished with exit code 0" and "Press ENTER to exit console." followed by a white cursor block.

```
enter the value of n 10
enter the value of m 2
100

...Program finished with exit code 0
Press ENTER to exit console.
```

<https://github.com/Saikumar-202075/oops-lab/blob/main/oops%20lab-3>