Assignment for Week 3

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1. P93-95 Debugging Exercises 4.1—4.4
2. Read the following program and determine the output.
   1)
   #include<iostream>
   using namespace std;
   int print(int i){return i*i;}
   double print(double d){return 2*d;}
   void main()
   {
       int a=25;
       float b=9.2;
       double d=3.3;
       char c='a';
       short i=3:
       long l=9;
       cout<<print(a)<<endl<<print(b)<<endl;</pre>
       cout<<print(c)<<endl<<print(l)<<endl;</pre>
   }
   2)
   #include<iostream.h>
   double f(int a=10,int b=20,int c=5) {return a*b*c;}
   void main( )
```

3. The effect of a default argument can be alternatively achieved by overloading. Discuss with an example.

cout<<f()<<endl<<f(10,10)<<endl<

- 4. Write a function **power()** to raise a number **m** to a power **n**. The function takes a **double** value for **m** and **int** value for **n**, and returns the result correctly. Use a default value of 2 for n to make the function to calculate squares when this argument is omitted. Write a **main** that gets the value of **m** and **n** from the user to test the function.
- 5. Write a function that performs the same operation as that of exercise 4 but takes an **int** value for **m**. Both the functions should have the same name. Write a **main** that calls both the functions. Use the concept of function overloading.
- ♦ Note:

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Submit your assignment with the name of "Student_ID_3.pdf" before the end of this week to the E-mail address computers2015@163.com