Self Exercise for Week 6

A. Use g++ to compile the following program, and then use nm to list symbols of the executable file. What encoded identifiers are used for the functions?

```
1   double average(double * n1, double & n2)
2   {
3       return ((*n1 + n2) / 2.0);
4   }
5   int average(int n1, float n2)
6   {
7       return ((n1 + n2) / 2);
8   }
9   int main()
10  {
11      return 0;
12  }
```

B. What is the output of the following program? Why?

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5       char a, *pa;
6       int b, *pb;
7       float c, *pc;
8       double d, *pd;
9
10      cout << sizeof(a) << " " << sizeof(pa) << endl;
11      cout << sizeof(b) << " " << sizeof(pb) << endl;
12      cout << sizeof(c) << " " << sizeof(pc) << endl;
13      cout << sizeof(d) << " " << sizeof(pd) << endl;
14      return 0;
15 }
```

Deliverables

Simply a *README* file showing your answers for the two questions.