ANSWERS

1. Consider the following program:

```c++
#include<iostream.h>
void main() {
    int a,b;
    cin >> a >> b;
    if (a > b){
        if (a > 0) cout << a;
        else cout << 2;
    }
    else cout << b;
}
```

For each of the following inputs, give the output:

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 2</td>
<td>2</td>
</tr>
<tr>
<td>2 1</td>
<td>2</td>
</tr>
<tr>
<td>-2 -3</td>
<td>2</td>
</tr>
<tr>
<td>-3 -2</td>
<td>-2</td>
</tr>
</tbody>
</table>

2. Write a code fragment that prints the message OK if the variable \( x \) satisfies

\[ 1 < x \leq 10 \]

and prints out the message not OK otherwise.

```c++
if (1<x && x<=10) cout << "OK\n";
else cout << "not OK\n";
```

QUESTION 3 IS ON THE BACK.
3. What is the output of this program?

```cpp
#include<iostream.h>
void main() {
    int i = 0, j = 2, k = 1;
    do {
        k += i*i;
        i++; j--;
        cout << k << endl << i << endl;
    } while ((k<5) || (j>0));
}
```

Output:

1
1
2
2
6
3