```
1: #include <iostream>
 2: using namespace std;
 3:
 4: int main()
 5: {
        int number;
 6:
 7:
 8:
        cout << "Enter an integer number: ";</pre>
 9:
        cin >> number;
10:
        int product = 1;
11:
12:
13:
        while (number!=0)
14:
            product *= (number % 10);
15:
16:
            cout << number % 10;
            number = number / 10;
17:
18:
19:
        if (number!=0)
20:
21:
22:
            {
                 cout << " * ";
23:
24:
            }
25:
26:
        else
27:
28:
                 cout << " = " << product << endl;</pre>
29:
30:
31:
32:
        if ((product%4==0)&&(product%5==0)&&(product%7==0))
33:
34:
            cout << product <<" is multiples of 4,5 and 7" << endl;</pre>
35:
36:
        else if ((product%4==0)&&(product%7==0))
37:
38:
            cout << product <<" is multiples of 4 and 7" << endl;</pre>
39:
40:
41:
42:
        else if ((product % 5 == 0) && (product % 7 == 0))
43:
            cout << product <<" is multiples of 5 and 7" << endl;</pre>
44:
45:
46:
        else if ((product % 4 == 0) && (product % 5 == 0))
47:
48:
            cout << product <<" is multiples of 4 and 5" << endl;</pre>
49:
50:
51:
        else if (product % 4 == 0)
52:
53:
            cout << product <<" is a multiple of 4" << endl;</pre>
54:
55:
```

```
56:
        else if (product % 5 == 0)
57:
58:
            cout << product <<" is a multiple of 5" << endl;</pre>
59:
60:
61:
        else if (product % 7 == 0)
62:
63:
            cout << product <<" is a multiple of 7" << endl;</pre>
64:
65:
66:
67:
68: return 0;
69: }
70:
71:
```