

**Exercise 5**

Apply the basis path technique to design the minimum test case required to testing the following method:

- a) draw the correctly labelled flow graph
- b) calculate the cyclomatic complexity:
  - I. provide the number of regions
  - II. provide the number of nodes
  - III. provide the number of predicate nodes
  - IV. provide the number of edges
- c) specify the independent paths
- d) provide the test cases associated with the independent paths

```
public double obtainBonus(string cod_employee, int months)
{
    int bonus = 0;
    try
    {
        int code = int.Parse(cod_employee);
        if(code > 100)
        {
            bonus = 100 * months;
        }
        else
        {
            bonus = 10;
        }
    }
    catch (FormatException e)
    {
        Console.WriteLine("cod_employee is not a number" +
            e.Message);
    }

    catch (Exception e)
    {
        Console.WriteLine("Other error:" + e.Message);
    }
    return bonus;
}
```