Project Step 3a — Activity Diagram

Project Step 3

Create an activity diagram, using one of the code samples below. Export the diagram as a PDF.

There are only six components you need to use: an entry point, an exit point, activities, predicates, guards, and connectors. All order components are optional.

Code segment 1

```
{
    int amount = int.Parse(number.Text);
    steps.Text = "";
    string current = "";

    do
    {
        int nextDigit = amount % 8;
        amount /= 8;
        int digitCode = '0' + nextDigit;
        char digit = Convert.ToChar(digitCode);
        current = digit + current;
        steps.Text += current + "\n";
    }
    while (amount != 0);
}
```

Code segment 2

```
{
    int remainder = 0;
    int place = 1;
    int result = 0;
    while(amount > 0)
    {
        remainder = (amount % 8);
        remainder *= place;
        place *= 10;
        result += remainder;
        steps.Text += result.ToString() + "\n";
        amount /= 8;
    }
}
```