# C++ Worksheet – Formative Assessment – Bank Interest

**Tutor Feedback**

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| --- | --- | --- |
| Grade descriptor(s) | **Tutor comments** | **Performance against the descriptor**  **(P/M/D)** |
| Application of Knowledge |  |  |
| Application of Skills |  |  |
| Quality |  |  |

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| **General feedback**      **Signed: Date:** |

Assignment Brief

## Overview

For this assignment you are required to produce a report that demonstrates your understanding of the core programming concepts and the c++ programming language. You will need to include screenshots demonstrating your code.

## Task

Write a program that will tell a user how much interest money will earn in a bank account. When the user types in a value in pounds, they should see an appropriate message that informs them of how much interest they would earn. The data needed for this program is:

|  |  |
| --- | --- |
| **Amount in account (£)** | **Interest earned (%)** |
| 1 to 99 | 0.05 |
| 100 to 149 | 1 |
| 150 to 249 | 2 |
| 250 to 399 | 3 |
| 400 to 499 | 3.5 |
| 500 to 749 | 4 |
| 750 to 999 | 4.5 |
| 1000+ | 5 |

You can design the solution as you see fit, however, it must make use of **compound statements**. At a minimum the program should display the interest earned. What I would like to see is the actual interest earned on my money (money + interest). Also, think about possible errors that may occur while the program is running.

## Task Requirements

Put your code on repl.it and include the URL in your assignment. I will check the code.

Your code should demonstrate suitable variable names, comments (*why* not what) and error checking.

You are required to produce the following:

* IPO chart
* Data dictionary
* Flowchart
* Evidence of successful compilation
* Screenshots of the console input and output

This will be marked (formative.)