***CSC 229 Programming 100 points***

***Project 02***

**Update program 1 to calculate interest rate based on the following criteria:**

* **Credit score**
* **Income of borrower**
* **Type of property**

**A score is calculated based on the above criteria, use the following tables to calculate the score:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Credit Score** | **C>=800** | **750=<c<800** | **700=<c<750** | **650=<c<700** | **600=<c<650** | **c<600** |
| **Points earned** | **10** | **8** | **6** | **4** | **2** | **0** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Borrower Income** | **I>=300k** | **200k=<I<300k** | **100k=<I<200k** | **80k=<I<100k** | **60k=<I<80K** | **I<60k** |
| **Points Earned** | **10** | **7** | **5** | **3** | **1** | **0** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Property Type** | **Single family home** | **Commercial property** | **Condominium** | **land** | **other** |
| **Points Earned** | **10** | **8** | **5** | **2** | **0** |

**Instead of prompting user for interest rate, prompt user for the selection of above criteria from an input dialogue box. Based on the selections, calculate the total score.**

**Assuming that the base rate is 4.5%, use the following table to increase or decrease the interest rate.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Score** | **s>=26** | **22=<s<26** | **20=<s<22** | **15=<s<20** | **12=<s<15** | **10=<s<12** | **S<10** |
| **Increment/**  **decrement** | **-1.0** | **-0.5** | **0.0** | **+0.5** | **+1.0** | **+2.0** | **+5.0** |

**Report all personal information, all loan information and monthly payment.**

**Submit:**

* **Zip ( NOT rar) the Java (.java), the runnable jar file and a screen shot of your final output, name your zip file as “your last name-your first name”**
* **Submit the zip file through BB**
* **Email the java file ONLY plus the screen shot of your final output to** [**seyedt1@southernct.edu**](mailto:seyedt1@southernct.edu)**, title of email should read as “CSC 229 – section # - Project 2 – “your last name”.**

**Sample Run**

**A screenshot of a computer screen

Description automatically generated**

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**A screenshot of a zip code

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**A screenshot of a credit card

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**A screenshot of a computer

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**A screenshot of a credit score

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**A screenshot of a computer screen

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**A screenshot of a computer

Description automatically generated**

**A screenshot of a credit card

Description automatically generated**

**Other Runs**

**A screenshot of a calculator

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**A screenshot of a credit card

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