***Software Engineering***

***Project Report for Grade Calculator***

***1.Problem Solving:***

*Project aims to solve problems regarding students grading system calculations easily and automatically in order to save time and errors.*

***2.Scenario of a Student:***

*Total Marks: 200*

*Total Marks of Homework : 30 (15%) => 28/30, 25/30 ..*

*Total Marks of Quiz : 10 (5)% => 8/10, 6.5/10..*

*Total Marks of Mid-Term Exam : 50 (25)% => 48/50*

*Total Marks of Final Term: 60 (30)% =>55/60*

*Total Marks of Project : 50 (25)% =>58/50*

***Grading Criteria***

***A: >=90***

***B: >= 80***

***C: >=70***

***D: >=60***

***F < 60***

***3.Requirements:***

***Functionality:*** *The code define Functions to calculate the grade, to receive and validate marks for various categories*

***Usability:*** *Code seems to provide the user friendly interface by prompting clear msg to use for input with description and can also handle potential input errors.*

***Reliability:*** *The code check for limits that input must be integer number and uses a do while loop to repeatedly ask user to input again and again till correct input Is given.*

***Performance:*** *Performance is generally acceptable for simple grading calculator however project doesn’t use ay harsh computations, also the implementation make sure that program doesn’t proceeds with invalid data.*

***Extensibility:*** *Code is modular with separate functions for input, validation, calculation and grading*

***4: Project Management:***

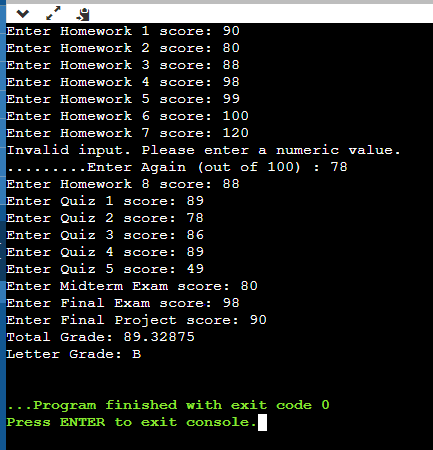
*Using github for version control and collaboration*

***5:Difficulties Encounter:***

*Initial challenge in handling user input*

*Ensuring proper calculation of weights and grades*

*Checking for valid inputs*

***6.Validation Screenshots:***

A computer screen shot of a program

Description automatically generated