Assignment Project Exam Help
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## **Assessed Exercise 2, Task 1**

Implement the part of the language in black. No need to implement code generation for the red parts. No test for this task will feature programs containing language constructs in red. Your code generator can throw CodegenException for the ASTs that correspond to language constructs in red, or you can return MIPS code, it does not matter.

```
PROG → DEC | DEC; PROG
DEC \rightarrow def ID (VARDEC) = E
VARDEC \rightarrow \epsilon | VARDECNE
VARDECNE → ID | VARDECNE, ID
ID \rightarrow \dots (identifiers)
INT → ... (Integers)
\mathsf{E} \to \mathsf{INT}
  | ID
    if E COMP E then E else E endif
    (E BINOP E)
    (E)
    ID(ARGS)
    skip
    (E; E)
    while E COMP E do E endwhile
    repeat E until E COMP E endrepeat
    ID := E
    break
    continue
```

## Assignment, Project Exam Help

Recall that the devent sefinition a every least feel of her County want to implement a feature, simply throw CodegenException when the code generator encounters this feature.

Note that the translation of procedure involved in the grammar above) is part of Task 1. Since every program will have at least one procedure invocation, I strongly suggest that you focus on getting this right.