

!CHUCK

```
LET material$ = "wood "  
LET contingency$ = " would "
```

```
DO  
  INPUT PROMPT "Which animal? ": animal$  
  IF animal$ = "woodchuck" THEN  
    CALL howmuch (math$,quantity$,condition$)  
    PRINT math$;quantity$;material$;"it";contingency$;"chuck";condition$;"enter:"  
    PRINT  
    CALL woodchuckchuck (width,height,depth)  
  ELSE  
    IF animal$ = "groundhog" THEN  
      CALL howmuch (math$,quantity$,condition$)  
      CALL conversion (newmaterial$,newway$)  
      PRINT math$;quantity$;newmaterial$;"it";contingency$;newway$;condition$;"enter:"  
      PRINT  
      CALL groundhoggrind (radius,length)  
    ELSE  
      PRINT "Wrong animal."  
    END IF  
  END IF  
LOOP UNTIL animal$ = "groundhog" OR animal$ = "woodchuck"
```

END

```
SUB woodchuckchuck (w,h,d)  
  DECLARE FUNCTION couldchuck  
  INPUT PROMPT "width? ": w  
  INPUT PROMPT "height? ": h  
  INPUT PROMPT "depth? ": d  
  PRINT "quantity of wood is "; couldchuck (w,h,d)  
END SUB
```

```
FUNCTION couldchuck (width,height,depth)  
  LET Area = width * height  
  LET couldchuck = Area * depth  
END FUNCTION
```

```
SUB groundhoggrind (r,l)  
  DECLARE FUNCTION couldgrind  
  INPUT PROMPT "radius? ": r  
  INPUT PROMPT "length? ": l  
  LET g = 1  
  PRINT "quantity of ground round is "; g*ROUND (couldgrind(r,l),3)  
END SUB
```

```
FUNCTION couldgrind (radius, length)  
  LET Area = Pi * (radius ^ 2)  
  LET couldgrind = Area * length  
END FUNCTION
```

```
SUB howmuch (mathematics$, howmuch$, conditional$)  
  LET mathematics$ = "To calculate"  
  LET howmuch$ = " how much "  
  LET conditional$ = " (if it could), "  
END SUB
```

```
SUB conversion (newstuff$,newprocedure$)  
  LET wood$ = "ground round "  
  LET newstuff$ = wood$  
  LET chuck$ = "chuck"  
  LET grind$ = "grind"  
  FOR letter = 1 TO 5  
    LET chuck$[letter:letter] = grind$[letter:letter]  
  NEXT letter  
  LET newprocedure$ = chuck$  
END SUB
```

!Chuck by Janet Zweig is a fully executable program written in TrueBasic, a version of BASIC programming language. !Try it.

Janet Zweig is an artist who lives in Brooklyn, New York.