H. Altuğ Yıldırım
090100252

1)
```
fibonacci:=proc(n)
 local x;
  begin x:=(1+sqrt(5))/2;
    Fn:=(x^n-(x-sqrt(5))^n)/sqrt(5);
    print(simplify(Fn));
  end:
```
2) 3, 5
3)
```
     f:=(1/2)*m*v^2;
     g:=subs(f,m=1);
     for b from 1 to 3 do
          print(subs(g,v=b))
     end_for
```
4)a)T
   b)F
   c)F
5)
```
program heyo
     integer:: a, square
     real::squareroot
        loop1: do
           read *, a
            if (a==666) then
              print *, "HELL AND FIRE"
              exit
            else if (modulo(a,2)==0) then
              print *, a**(0.5)
            else if (modulo(a,2)/=0) then
              print *, a**2
             end if
          end do loop1
end program heyo
```