

TP N°1

Exercice 1 :

```

Program fact ;
| var n , i , f : integer;
Begin
|   writeln (‘Entrez un nombre : ‘) ;
|   readln (n);
|   f := 1 ;
|   i := 1;
|   while ( i <= n) do
|   begin
|   |   f := f * i ;
|   |   i := i+1;
|   end;
|   writeln ( ‘ factorielle = ’ , s);
end.
    
```

Exercice 2 :

```

program Parfait ;
|   var n , i , s: integer;
Begin
|   writeln (‘Entrez un nombre : ‘) ;
|   readln (n);
|   s:= 0 ;
|   for i := 1 to n div 2 do
|   |   if ( n mod i = 0 ) then
|   |   |   s:=s+i;
|   |
|   |   if ( s = n ) then
|   |   |   writeln ( ‘ parfait ’ )
|   |   else
|   |   |   writeln ( ‘ n est pas parfait ’ );
|   end.
    
```

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Exercice 3 :

```
Program PGCD ;  
|  
|   Var   A , B, r : integer;  
  
Begin  
|  
|   writeln ('Entrez deux nombres : ');  
|   readln (a , b);  
|   repeat  
|       r := A mod B;  
|       A := B;  
|       B :=r;  
|   Until (r = 0);  
|  
|   writeln ('PGCD' , A ) ;  
End.
```

```
Program PGCD ;  
|  
|   Var   A , B, r : integer;  
  
Begin  
|  
|   writeln ('Entrez deux nombres : ');  
|   readln (a , b);  
|   r := A mod B;  
|   while ( r <> 0) do  
|   begin  
|       A := B;  
|       B :=r;  
|       r := A mod B;  
|   end;  
|   writeln ('PGCD' , B ) ;  
End.
```