Домашнее задание (лекция 3)

сопоставление по образцу, бинарные строки

BS01: Извлечь из строки первое слово:

Пример:

```
1> BinText = <<"Some text">>.
<<"Some Text">>
2> bs01:first_word(BinText).
<<"Some">>
```

BS02: Разделить строку на слова:

Пример:

BS03: Разделить строку на части, с явным указанием разделителя:

Пример:

BS04: Разобрать JSON:

Пример:

```
1> Json = <<"
1> {
1> 'squadName': 'Super hero squad',
1> 'homeTown': 'Metro City',
1> 'formed': 2016,
1> 'secretBase': 'Super tower',
1> 'active': true,
1> 'members': [
1> {
     'name': 'Molecule Man',
'age': 29,
1>
1>
1>
       'secretIdentity': 'Dan Jukes',
       'powers': [
1>
       'Radiation resistance',
'Turning tiny',
1>
1>
     ]
1>
        'Radiation blast'
1>
1>
     },
1>
      'name': 'Madame Uppercut',
'age': 39,
1>
1>
1>
        'secretIdentity': 'Jane Wilson',
       'powers': [
1>
1>
         'Million tonne punch',
1> 'Damage resistance',
```

```
1> 'Superhuman reflexes'
1>
        ]
1>
       },
1 >
1>
        'name': 'Eternal Flame',
1>
        'age': 1000000,
        'secretIdentity': 'Unknown',
1 >
1>
        'powers': [
          'Immortality',
1>
          'Heat Immunity',
1>
1>
          'Inferno',
1>
          'Teleportation',
1>
          'Interdimensional travel'
1>
1>
1> ]
1> }
1> ">>.
2> bs04:decode(Json, proplist).
[{<<"squadName">>,<<"Super hero squad">>},
{<<"homeTown">>, <<"Metro City">>},
 <<"formed">>,2016},
 {<<"secretBase">>,<<"Super tower">>},
 {<<"active">>, true},
 <<"members">>,
  [[{<<"name">>,<<"Molecule Man">>},
    {<<"aqe">>,29},
    {<<"secretIdentity">>,<<"Dan Jukes">>},
    <<"powers">>,
     [<<"Radiation resistance">>,<<"Turning tiny">>,
      <<"Radiation blast">>]}],
   [{<<"name">>,<<"Madame Uppercut">>},
    {<<"age">>,39},
    {<<"secretIdentity">>, << "Jane Wilson">>},
    {<<"powers">>,
     [<<"Million tonne punch">>, << "Damage resistance">>,
      <<"Superhuman reflexes">>]}],
   [{<<"name">>,<<"Eternal Flame">>},
    {<<"age">>,1000000},
    {<<"secretIdentity">>, <<"Unknown">>},
   {<<"powers">>,
    [<<"Immortality">>>,<<"Heat Immunity">>>,<<"Inferno">>>,
<<"Teleportation">>, <<"Interdimensional travel">>|}||}|
3> bs04:decode(Json, map).
#{<<"active">> => true, <<"formed">> => 2016,
  <<"homeTown">> => <<"Metro City">>,
  <<"members">> =>
      [#{<<"age">> => 29,<<"name">> => <<"Molecule Man">>,
         <<"powers">> =>
             [<<"Radiation resistance">>,<<"Turning tiny">>,
              <<"Radiation blast">>],
         <<"secretIdentity">> => <<"Dan Jukes">>},
       #{<<"age">> => 39,<<"name">> => <<"Madame Uppercut">>,
         <<"powers">> =>
             [<<"Million tonne punch">>>,<<"Damage resistance">>>,
              <<"Superhuman reflexes">>],
         <<"secretIdentity">> => <<"Jane Wilson">>},
  #{<<"age">> => 1000000,<<"name">> => <<"Eternal Flame">>,
```