浙江大学城市学院实验报告

课程名称
实验项目名称实验九 模块与编程语言 Egg
学生姓名
实验成绩 指导老师(签名) 日期
注意: ● 务请保存好各自的源代码,已备后用。 ● 请把作业保存为 pdf 上传到 BB 平台,请务必在截止日期前提交。 实验目的:
1、掌握 JS 中的模块定义与使用。
2、了解编程语言及其解释器的原理与实现
实验内容:
1. 阅读课件讲义并运行讲义示例程序
2. 教材 P145 习题 10.10.1,10.10.2,10.10.3
3. 教材 P156 习题 11.8.1,11.8.2,11.8.3
实验步骤:
1,
<pre>run("do(define(plusOne, fun(a, +(a, 1))),",</pre>
" print(plusOne(10)))");
11
11
11_language.js (126,3)
<pre>run("do(define(pow, fun(base, exp,",</pre>
" 1,",
" *(base, pow(base, -(exp, 1))))),",
" print(pow(2, 10)))");
1024
1024
11_language.js (126,3)

2

2.1

```
var monthday = function(){
   var
month=["JAR","FEB","MAR","ARP","MAY","JUN","JUL","AUS","SEP","OCT","NEV
","DEC"];
   var num=[0,1,2,3,4,5,6,7,8,9,10,11];
   return{
      tomonth: function(number){if(num.indexOf(number)!=-1) return
month[number];else return "请输入正确的数字";},
      tonum: function(number){if(month.indexOf(number)!=-1) return
num[month.indexOf(number)];else return "请输入正确的月份";}
   };
}();
console.log(monthday.tomonth(1));
console.log(monthday.tomonth(13));
console.log(monthday.tonum("JAR"));
console.log(monthday.tonum("abc"));
```

```
问题 输出 调试控制台 终端
正在使用旧版协议调试,因为检测到节点 v6.10.2。
node --debug-brk=4012 --nolazy p145-1.js
Debugger listening on [::]:4012
FEB
请输入正确的数字
0
请输入正确的月份
```

2.2

2.3

3

3.1

```
topEnv["array"] = function(){return
Array.prototype.slice.call(arguments,0);};
topEnv["length"] = function(array){return array.length;};
```

```
topEnv["element"] = function(array,n){return array[n];};
run("do(array,",
   "print(array(1,2,3)),",
   "print(length(array(1,2,3))),",
   "print(element(array(1,2,3),1)))"
  topEnv["array"] = function(){return Array.prototype.slice.call(arguments,0);};
  topEnv["length"] = function(array){return array.length;};
  topEnv["element"] = function(array,n){return array[n];};
  run("do(array,",
     "print(array(1,2,3)),",
     "print(length(array(1,2,3))),",
     "print(element(array(1,2,3),1)))"
  );
  ▷ [object Array]
                      [1, 2, 3]
    11_language.js (126,3)
  11_language.js (126,3)
 11_language.js (126,3)
   3.2
   3.3
function skipSpace(string) {
  var first = string.search(/\S #/);
  if (first != -1) return "";
  return string.slice(first);
  console.log(parse("# hello\nx"));
  undefined
   {name: "x", type: "word"}
      eval code (2) (1,1)
   console.log(parse("a #abc "));
  undefined
   ▷ [object Object]
                                 {name: "a", type: "word"}
      eval code (4) (1,1)
```