《软件测试》

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| 学 号 | 210403020 |  | 名 称 | 语句、判定、条件覆盖 |
| 姓 名 | 吴泽 |  | 地 点 | 5604 |
| 班 级 | 移动应用开发一班 |  | 日 期 | 2023-02-27 |

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| **目的和内容**  **目的：**  （1）理解逻辑覆盖中语句覆盖，判定覆盖，条件覆盖定义。  （2）学会按指定覆盖要求设计测试用例，进行测试。  **内容：**  （1）理解工资计算问题的命题。  **工资问题**：某企业，工资计算标准为：  25岁以上（不含25）的男性在基本工资基础上加150元，如此计算之后，工资额如果超过2000元（不包括2000）或者满50岁（包括50）的职工，将工资减去200，最后显示本月工资。（基本工资暂定为：1500，2000，2500三种）    （2）选择编程工具编程实现。  （3）按照语句覆盖，判定覆盖，条件覆盖要求，设计测试数据及预期结果。  （4）利用测试数据进行测试，记录测试结果（与预期结果一致OK，不一致NG）  **实验记录：**  （1）程序代码：  <!DOCTYPE html>  <html>  <head>  <meta charset="utf-8" />  <title></title>  <style>  .box{  width: 500px;  height: 250px;  border: 1px solid cadetblue;  margin: 0 auto;  text-align: center;  border-radius: 5px;  }  .box>\*{  margin:8px 0;  }  .output{  font-size: 20px;  color: red;  }  </style>  </head>  <body>  <div class="box">  <h2>工资计算</h2>  请输入年龄：<input type="number" value="" class="ageinput"><br>  请输入性别：<select class="sexinput">  <option value="man" class="man">男</option>  <option value="woman" class="wonman">女</option>  </select><br>  请输入基本工资：<select class="moneyinput">  <option value="1500" class="a">1500</option>  <option value="2000" class="b">2000</option>  <option value="2500" class="c">2500</option>  </select><br>  <input type="number" disabled class="output"><br>  <button onclick="btn()">计算</button>  </div>  <script>  function btn() {  var ageinput = document.querySelector(".ageinput").value;//获取年龄  var sexinput = document.querySelector(".sexinput").value;//获取性别  var moneyinput = document.querySelector(".moneyinput")//获取基本工资  var index = moneyinput.selectedIndex;//获取基本工资的选中项  var select = moneyinput.options[index].value;//获取选中项的值  var output=document.querySelector(".output");//获取输出的值  var money=Number(select);  if (ageinput == "") {  alert("请先输入年龄！！")  }  if (ageinput>25 && sexinput=="man") {  money=money+150;  } else{  money=money;  }  if (ageinput>50 || money>2000) {  money=money-200;  }  output.value=money;  }  </script>  </body>  </html>      （2）语句覆盖测试用例设计原理：  指设计若干个测试用例，使得程序运行时，每个可执行语句至少被执行一次。  （3）判定覆盖测试用例设计原理：  指设计若干个测试用例，使得程序运行时，每个判断条件的真假分支至少被执行一次。  （4）条件覆盖测试用例设计原理：  指设计若干个测试用例，使得程序运行时，每个判断条件中的每个判断式的真、假值至少被执行一次。  （5）测试用例及测试结果记录表：   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **语句覆盖** | | | | | | | | | **编号** | **输入** | | | **预期输出** | **预期路径** | **实际输出** | **一致OK，不一致NG** | | 年龄 | 性别 | 基本工资 | 本月工资 | | 1 | 26 | 男 | 1500 | 1650 | ace | ace | OK |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **判定覆盖** | | | | | | | | | **编号** | **输入** | | | **预期输出** | **预期路径** | **实际输出** | **一致OK，不一致NG** | | 年龄 | 性别 | 基本工资 | 本月工资 | | 1 | 26 | 男 | 1500 | 1650 | ace | ace | OK | | 2 | 26 | 女 | 1500 | 1500 | abd | abd | OK | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **条件覆盖** | | | | | | | | | **编号** | **输入** | | | **预期输出** | **预期路径** | **实际输出** | **一致OK，不一致NG** | | 年龄 | 性别 | 基本工资 | 本月工资 | | 1 | 26 | 男 | 1500 | 1650 | ace | ace | OK | | 2 | 26 | 女 | 1500 | 1500 | abd | abd | OK | |  |  |  |  |  |  |  |  | |