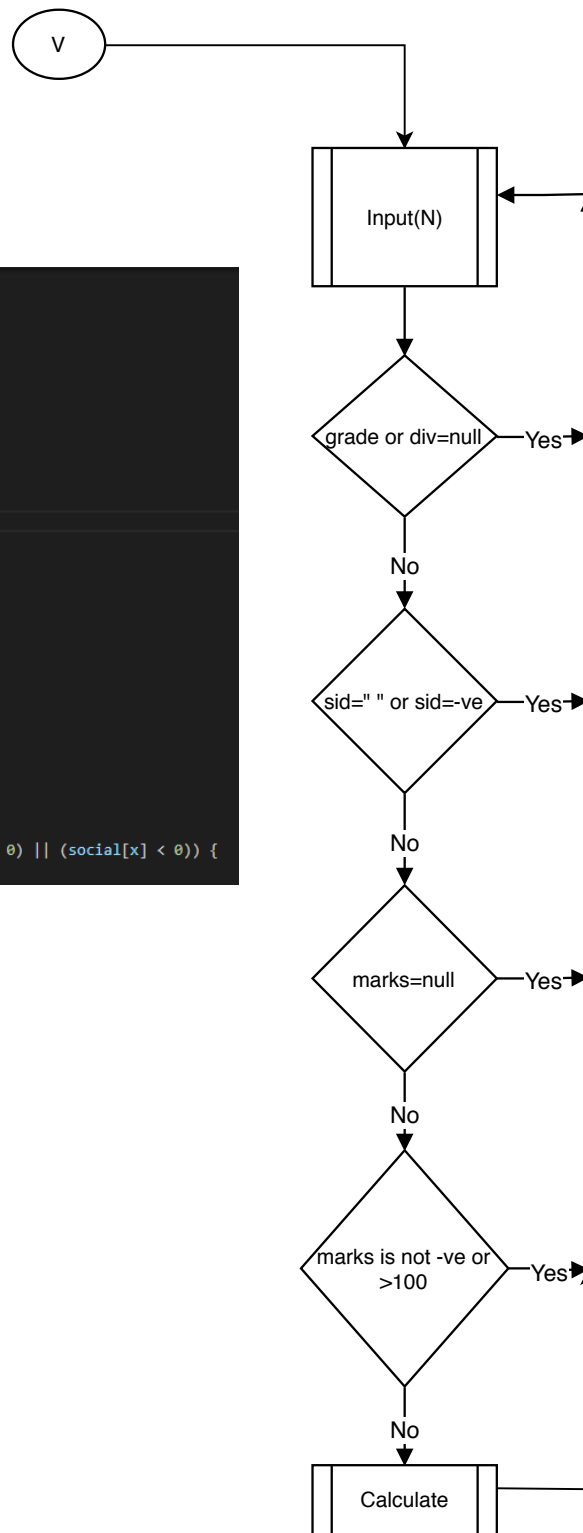


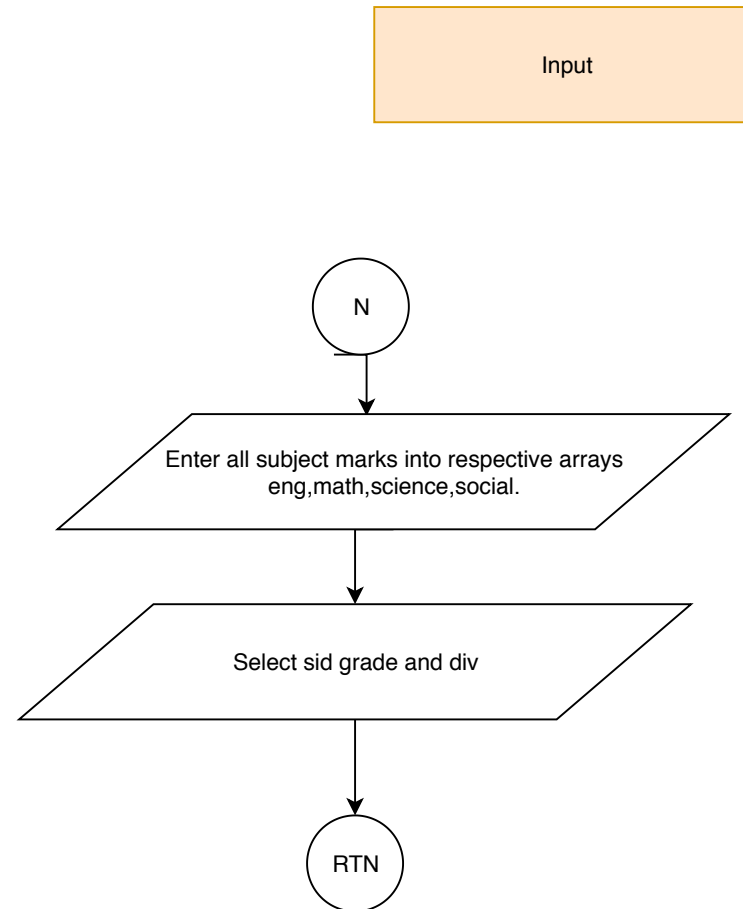
Initialisation

```
var x = 0;  
var ns = 4;  
var grad=0,div=0 ;  
var sid= new Array;  
var eng = new Array();  
var math = new Array();  
var science = new Array();  
var social = new Array();  
var pass = new Array(13).fill(0);  
var fail = new Array(13).fill(0);  
var totstud = new Array(13).fill(0);  
var var totstudents: number  
var totstudents=0;  
var totalpass=0;  
var totalfail=0;  
var tpp;
```

Validate

```
if((isNaN(sid[x])))
{
    alert("Enter a StudentID")
}
else if(sid[x]<0)
{
    alert("Enter a Valid StudentID")
}
else if (strUser == 0) {
    alert("Please select a Grade");
}
else if (strUser2 == 0) {
    alert("Please select a division");
}
else if ((isNaN(eng[x]))) {
    alert("Please enter some marks for English ");
}
else if ((isNaN(math[x]))) {
    alert("Please enter some marks for Maths ");
}
else if ((isNaN(science[x]))) {
    alert("Please enter some marks for Science ");
}
else if ((isNaN(social[x]))) {
    alert("Please enter some marks for Social ");
}
else if ((eng[x] < 0) || (math[x] < 0) || (science[x] < 0) || (social[x] < 0)) {
    alert("Marks can't be negative");
}
```

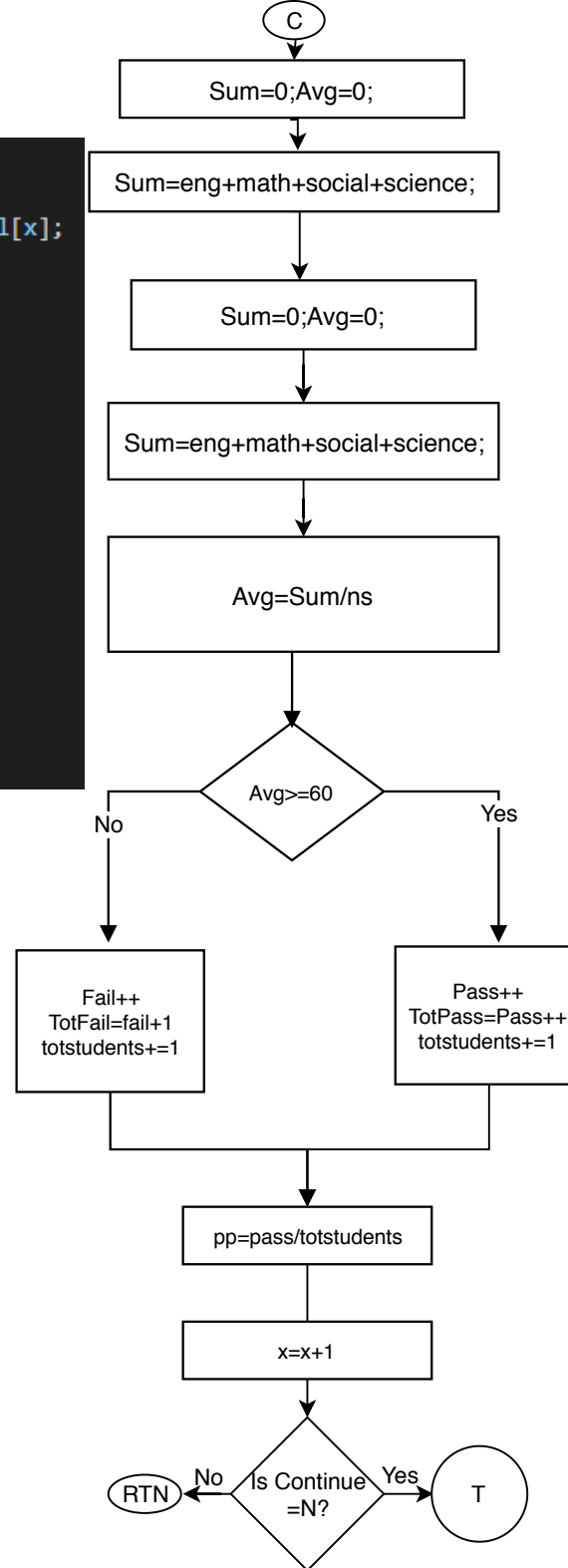




```
sid[x] = parseInt(document.getElementById("SID").value, 10);
grad = parseInt(document.getElementById("grades").value, 10);
div = parseInt(document.getElementById("div").value, 10);
eng[x] = parseInt(document.getElementById("english").value, 10);
math[x] = parseInt(document.getElementById("maths").value, 10);
science[x] = parseInt(document.getElementById("science").value, 10);
social[x] = parseInt(document.getElementById("social").value, 10);
var g = document.getElementById("grades");
var strUser = g.options[g.selectedIndex].value;
var strUser1 = g.options[g.selectedIndex].text;
var d = document.getElementById("div");
var strUser2 = d.options[d.selectedIndex].value;
var strUser3 = d.options[d.selectedIndex].text;
var t=1;
```

Calculate

```
alert("Marks Entered");  
var z = grad;  
var sum = eng[x] + math[x] + science[x] + social[x];  
var avg = sum / ns;  
if (avg >= 60) {  
    pass[z]++;  
    totstud[z]++;  
    totalpass++;  
    totstudents++;  
}  
else if (avg < 60) {  
    fail[z]++;  
    totstud[z]++;  
    totalfail++;  
    totstudents++;  
}  
pp[z] = ((pass[z] / totstud[z]) * 100);  
x++;
```



Display

```
var myTable = "<h1>Final Report</h1>";
myTable += "<table><tr><td>Grades</td>";
myTable += "<td>No of students</td>";
myTable += "<td>Pass</td>";
myTable += "<td>Fail</td>";
myTable += "<td>Pass Percentage</td></tr>";

for (var i = 1; i <= 12; i++) {
    myTable += "<tr><td>Grade" + i + "</td>";
    myTable += "<td>" + totstud[i] + "</td>";
    myTable += "<td>" + pass[i] + "</td>";
    myTable += "<td>" + fail[i] + "</td>";
    myTable += "<td>" + pp[i].toFixed(2) + "</td></tr>";
}

if(totstudents==0)
{
    tpp=0;
}else{
    tpp=(totalpass/totstudents)*100;
}

myTable += "<tr><td>Total</td>";
myTable += "<td>" + totstudents + "</td>";
myTable += "<td>" + totalpass + "</td>";
myTable += "<td>" + totalfail + "</td>";
myTable += "<td>" + tpp.toFixed(2) + "</td>";
myTable += "</table>";
document.getElementById("Result").innerHTML = myTable;
```

