Control Structures (Illustration of Programs)

If control structures

```html
<html>
<head>
        <title>if Conditional Control structures</title>
        <h1>compiled by Er.Gaurab Mishra</h1>
</head>
<body>
        <script type="text/javascript">
                //if control structure
                var a=20;
                if(a>10)
                {
                        document.write("The value of a is greater than 10" +
"<br>");
                }
</script>
</body>
</html>
```

If ..else control structures

```html
<html>
<head>
        <title>if..else Conditional Control structures</title>
        <h1>compiled by Er.Gaurab Mishra</h1>
</head>
<body>
        <script type="text/javascript">
                //if ..else control structure
```

```
                var a=20;
                if(a>10)
                {
                        document.write("The value of a is greater than 10" +
"<br>");
                }
                else
                {
                        document.write("The value of a is not greater than 10" +
"<br>");
                }
        </script>
</body>
</html>
```

If..else..if control structures
(Greatest among 3 numbers)

```
<!DOCTYPE html>
<html>
<head>
        <title>if..else..if Conditional Control structures</title>
        <h1>compiled by Er.Gaurab Mishra</h1>
</head>
<body>
<script type="text/javascript">
        //if..else...if statement
                //displays greatest among 3 numbers
                var a=2,b=27,c=13;
                if(a>b && a>c)
                {
                document.write(a," is the greatest" + "<br>");
```

```
            }
            else if(b>a && b>c)
            {
            document.write(b," is the greatest" + "<br>");
            }
            else if(c>a && c>b)
            {
            document.write(c," is the greatest" + "<br>")
            }
            else
            {
            document.write("all are equal" + "<br>");
            }
</script>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
      <title>switch case Control structures</title>
      <h1>compiled by Er.Gaurab Mishra</h1>
</head>
<body>
<script type="text/javascript">
      //switch...case statement
   //name of the day of the week
        var day=new Date().getDay();
            switch(day)
            {
```

```javascript
            case 0:document.write("sunday");
                    break;
            case 1:document.write("monday");
                    break;
            case 2:document.write("tuesday");
                    break;
            case 3:document.write("wednesday");
                    break;
            case 4:document.write("thursday");
                    break;
            case 5:document.write("friday");
                    break;
            case 6:document.write("saturday")
                    break;
            default:
            document.write("Invalid day");
            }
</script>
</body>
</html>
```

```html
<!DOCTYPE html>
<html>
<head>
      <title>switch case Control structures</title>
      <h1>compiled by Er.Gaurab Mishra</h1>
</head>
<body>
<script type="text/javascript">
      //switch...case statement
    //day of the week
```

```javascript
var day=prompt("Enter a number");
switch(day)
{
case '1':document.write("sunday");
        break;
case '2':document.write("monday");
        break;
case '3':document.write("tuesday");
        break;
case '4':document.write("wednesday");
        break;
case '5':document.write("thursday");
        break;
case '6':document.write("friday");
        break;
case '7':document.write("saturday")
        break;
default:
document.write("Invalid day");
}
document.write("<br>");
</script>
</body>
</html>
```

For loop control structures
(print 1 to 5)

```html
<html>
<head><title>for Loop control structures</title>
<h1>compiled by Er.Gaurab Mishra</h1></head>
<body>
<script type="text/javascript">
```

```
        //for loop to print 1 to 5
        for(var i=1;i<=5;i++)
        {
                document.write(i + "<br>");
        }
</script>
</body>
</html>
```

For loop to find factorial of a number

```
<html>
<head><title>for loop to find factorial of a number</title>
<h1>compiled by Er.Gaurab Mishra</h1></head>
<body>
<script type="text/javascript">
//for loop to find factorial of a number
        var f=1;
        var i,n;
        n=prompt("enter the number to calculate");
        for(i=1;i<=n;i++)
        {
                f=f*i;
        }
        document.write("The factorial is= " + f);
    document.write("<br>")
</script>
</body>
</html>
```

For loop to loop through an array

```
<html>
```

```
<head>
<title>Javascript loop through an array using for loop</title>
<h1>Compiled by Er.Gaurab Mishra</h1>
</head>
<body>
      <script type="text/javascript">
      //an array with some elements
      var fruits=["apple","banana","mango"];
      for(var i=0;i<fruits.length;i++)
      {
              document.write(fruits[i] +"<br>");
      }
      </script>
</body>
</html>
```

While loop
(print 1 to 5)

```
<html>
<head><title>while loop control structures</title>
<h1>compiled by Er.Gaurab Mishra</h1></head>
<body>
<script type="text/javascript">
      //while loop to print 1 to 5
   var i=1;
   while(i<=5)
   {
       document.write(i +"<br>");
       i++;
   }
   document.write("<br>")
```

```
</script>
</body>
</html>
```

```
<html>
<head><title> do while loop control structures</title>
<h1>compiled by Er.Gaurab Mishra</h1></head>
<body>
<script type="text/javascript">
        //do while loop to print 1 to 5
    var i=1;
    do{
       document.write(i + "<br>");
       i++;
    }while(i<=5);
    document.write("<br>")
</script>
</body>
</html>
```

```
<html>
<head><title> do while loop multiplication table</title>
<h1>compiled by Er.Gaurab Mishra</h1></head>
<body>
<script type="text/javascript">
```

```
        //do while loop to print multiplication table of a number up to 10
    var count=1;
    var num=prompt("Enter the multiplication number");
    var m;
    do{
        m=count*num;
        document.write(m + "<br>");
        count++;
    }while(count<=10);
</script>
</body>
</html>
```