1. Create bash script file to find the area of a rectangle using function parameter.

echo "enter length"

read length

echo "enter breadth"

read breadth

area()

{

Area=$(($length \* $breadth))

echo "Area is $Area"

}

area $length $breadth

1. Create bash script file to display 1st (Luky Number 1-200) , 2nd (Luky Number 201-500) and 3rd Prize (Luky Number 501-1000) message for given luky number using case statement.

|  |
| --- |
| echo "Enter your lucky number" |
|  | read n |
|  | num2=100 |
|  | ans=$((n / num2)) |
|  | case $ans in |
|  | 0|1|200) |
|  | echo echo "You got 1st prize" ;; |
|  | 2|3|4|500) |
|  | echo "You got 2nd prize" ;; |
|  | 5|6|7|8|9|1000) |
|  | echo "You got 3rd prize" ;; |
|  | \*) |
|  | echo "Sorry, try for the next time" ;; |
|  | esac |

3.Demonstrate loop statements uisng bash script.

echo "printing 1-5 numbers using for loop"

for i in 1 2 3 4 5

do

echo "number $i"

done

echo "printing 6-12 numbers using while loop"

i=6

while [ $i -le 12 ]

do

echo "number $i"

i=$((i + 1))

done

echo "printing 13-20 numbers using until loop"

j=13

until [ $j -gt 20 ]

do

echo "number $j"

j=$((j + 1))

done

4.Temperature conversion

print "enter any value:";

$temp =<STDIN>;

$f1temp = $temp . "°F";

$ctemp = ($temp - 32)\* 5.0/9.0;

$rtemp = sprintf("%.1f", $ctemp);

$c1temp = $rtemp . "°C";

print "$f1temp is $c1temp\n\n";

$ftemp = $temp\* 9.0/5.0 + 32;

$rtemp = sprintf("%.1f", $ftemp);

$c2temp = $temp . "°C";

$f2temp = $rtemp . "°F";

print "$c2temp is $f2temp\n\n";

5. 1, 2, 3, 999 are entered, the answer is 6 (1+2+3)

@num=(1,2,3,999);

print "$num[0]\n";

print "$num[1]\n";

print "$num[2]\n";

print "$num[3]\n";

$sum=$num[0]+$num[1]+$num[2];

print "$sum\n";

6. Write a perl program that prints a table of numbers and their squares

foreach $number (0..32)

{

$square=$number\*$number;

printf "%5g %8g\n", $number,$square;

}

7.Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference and quotient.

<html>

<head>

<title>javascript</title>

</head>

<body>

<h2><u>Calculator</u></h2>

<input id="field" type="text"></br></br>

<button onclick="clicks(this)" id="1">1</button>

<button onclick="clicks(this)" id="2">2</button>

<button onclick="clicks(this)" id="3">3</button>

<button onclick="clicks(this)" id="+">+</button></br></br>

<button onclick="clicks(this)" id="4">4</button>

<button onclick="clicks(this)" id="5">5</button>

<button onclick="clicks(this)" id="6">6</button>

<button onclick="clicks(this)" id="-">-</button></br></br>

<button onclick="clicks(this)" id="7">7</button>

<button onclick="clicks(this)" id="8">8</button>

<button onclick="clicks(this)" id="9">9</button>

<button onclick="clicks(this)" id="\*">\*</button></br></br>

<button onclick="del()" id="X">X</button>

<button onclick="clean()" id="AC">AC</button>

<button onclick="ans()" id="=">=</button>

<button onclick="clicks(this)" id="/">/</button></br></br>

<script>

function clicks(btn){

var box = document.getElementById("field");

box.value+=btn.id;

}

function ans(){

var box = document.getElementById("field");

var expr = box.value;

var result = eval(expr);

box.value=result;

}

function clean(){

var box = document.getElementById("field");

box.value="";

}

function del(){

var box = document.getElementById("field");

var str = box.value;

box.value=str.slice(0,str.length-1);

}

</script>

</body>

</html>

8.Write java scripts covering

Function (reverse of a given number

Recursive functions (factorial, Fibonacci, power)

<html>

<head>

<script>

function reverse()

{

var n=window.prompt("Enter a number:");

var reverse=0;

while(n!=0) {

var remainder=n%10;

reverse=(reverse\*10)+remainder;

n=parseInt(n/10);

}

document.writeln("reversed number is:"+reverse);

}

</script>

</head>

<body>

<script>

reverse();

</script>

</body>

</html>

**Program 2**

<html>

<head>

<script>

function factorial(x)

{

if(x>=1)

{

return (x\*factorial(x-1));

}

else

{

return 1;

}

}

</script>

</head>

<body>

<script>

var x=window.prompt("enter a number:");

document.writeln(factorial(x));

</script>

</body>

</html>

<html>

<head>

<script>

function fibonacci(num) {

if(num < 2)

{

return num;

}

else

{

return fibonacci(num-1) + fibonacci(num - 2);

}

}

</script>

</head>

<body>

<script>

const n=window.prompt('Enter the number of terms: ');

if(n<=0) {

document.write('Enter a positive integer.');

}

else {

for(var i = 0; i < n; i++) {

document.write(fibonacci(i)+"\t");

}

}

</script>

</body>

</html>

<html>

<head>

<script>

function power(x , y) {

if (y == 0)

return 1;

if (x == 0)

return 0;

else

return x \* power(x, y - 1);

}

</script>

</head>

<body>

<script>

var y=window.prompt("enter a exponent:");

var x=window.prompt("enter a number:");

document.write(power(x, y));

</script>

</body>

</html>

9.Write java scripts covering

Arrays I (Matrix addition, multiplication)

Array II ( Binary Search , Bubble sort)

**Program 3**

<html>

<head><title>Addition of 2 matrices</title>

</head>

<body>

<script>

var row=parseInt(window.prompt("enter row size:"));

var arr=new Array(row);

var col=parseInt(window.prompt("enter col size:"));

for(var m=0;m<arr.length;m++)

arr[m]=new Array(col);

for(var i=0;i<row;i++)

for(var j=0;j<col;j++)

arr[i][j]=parseInt(window.prompt("enter a value ["+i+"]["+j+"]"));

var arr1=new Array(row);

for(var n=0;n<arr1.length;n++)

arr1[n]=new Array(col);

var arr2=new Array(row);

for(var n=0;n<arr2.length;n++)

arr2[n]=new Array(col);

for(var p=0;p<row;p++)

for(var q=0;q<col;q++)

arr1[p][q]=parseInt(window.prompt("enter a value ["+p+"]["+q+"]"));

document.writeln("addition of matrices <br/>");

for(var s=0;s<row;s++)

{

for(var t=0;t<col;t++)

{

arr2[s][t]=arr[s][t]+arr1[s][t];

document.writeln(arr2[s][t]+" ");

}

document.writeln("<br/>");

}

</script>

</body>

</html>

<html>

<head><title>Multiplication of 2 matrices</title>

</head>

<body>

<script>

var row=parseInt(window.prompt("enter row size:"));

var arr=new Array(row);

var col=parseInt(window.prompt("enter col size:"));

for(var m=0;m<arr.length;m++)

arr[m]=new Array(col);

for(var i=0;i<row;i++)

for(var j=0;j<col;j++)

arr[i][j]=parseInt(window.prompt("enter a value ["+i+"]["+j+"]"));

var arr1=new Array(row);

for(var n=0;n<arr1.length;n++)

arr1[n]=new Array(col);

var arr2=new Array(row);

for(var n=0;n<arr2.length;n++)

arr2[n]=new Array(col);

for(var a=0;a<row;a++)

{

for(var b=0;b<col;b++)

{

arr2[a][b]=0;

}

}

for(var p=0;p<row;p++)

for(var q=0;q<col;q++)

arr1[p][q]=parseInt(window.prompt("enter a value ["+p+"]["+q+"]"));

document.writeln("multiplication of matrices <br/>");

for(var s=0;s<row;s++)

for(var t=0;t<col;t++)

for(var u=0;u<row;u++)

arr2[s][t]=arr2[s][t]+arr[s][u]\*arr1[u][t];

for(var a=0;a<row;a++)

{

for(var b=0;b<col;b++)

{

document.writeln(arr2[a][b]+" ");

}

document.writeln("<br/>");

}

</script>

</body>

</html>

**Program 4**

<html>

<head>

<script>

recursiveFunction = function (arr, x, start, end)

{

if(start>end)

return false;

mid=Math.floor((start+end)/2);

if (arr[mid]==x)

return true;

if(arr[mid] > x)

return recursiveFunction(arr, x, start, mid-1);

else

return recursiveFunction(arr, x, mid+1, end);

}

</script>

</head>

<body>

<script>

var n=parseInt(window.prompt("enter size of array:"));

var arr=new Array(n);

for(var i=0;i<n;i++)

{

arr[i]=parseInt(window.prompt("enter values into array:"));

}

var x=parseInt(window.prompt("enter value to be searched:"));

if (recursiveFunction(arr, x, 0, arr.length-1))

document.write("Element found!<br>");

else document.write("Element not found!<br>");

</script>

</body>

</html>

<html>

<head>

<script>

function bubbleSort(arr) {

for (var i = arr.length - 1; i > 0; i--) {

for (var j = 0; j < i; j++) {

if (arr[j] > arr[j + 1]) {

[arr[j], arr[j + 1]] = [arr[j + 1], arr[j]];

}

}

}

return arr;

}

</script>

</head>

<body>

<script>

var n=parseInt(window.prompt("enter size of array:"));

var arr=new Array(n);

for(var i=0;i<n;i++)

arr[i]=parseInt(window.prompt("enter values into array:"));

document.writeln("before sorting values are:");

for(var i=0;i<n;i++)

document.writeln(arr[i]+" ");

bubbleSort(arr);

document.writeln("<br/>after sorting values are:");

for(var i=0;i<n;i++)

document.writeln(arr[i]+" ");

</script>

</body>

</html>

10.Write a PHP program to sort elements in an array in descending order using functions.

<?php  
$array=array(27,100,12,1,67,43);  
$count=count($array);  
echo "<pre>";  
print\_r($array);  
for ($i=0;$i<$count;$i++)  
{  
    for($j=$i+1;$j<$count;$j++)  
     {  
        if ($array[$i] < $array[$j])  
        {  
            $temp=$array[$i];  
            $array[$i]=$array[$j];  
            $array[$j]=$temp;  
        }  
    }  
}  
echo "Sorted Array:" . "<br/>";  
print\_r($array);

11.Write a PHP program to remove the duplicated values from an array using functions.

<?php  
$arr=array(5,13,61,13,5,53,61,13,6,35,43);  
$arr1=array();  
foreach($arr as $a) {  
    foreach($arr1 as $b) {  
        if($a==$b) {  
            continue 2;  
        }  
    }  
    $arr1[]=$a;  
}  
echo "<pre>";  
print\_r($arr1);  
?>

12.Write a PHP program to replace all the patterns like '[!\*]' using Regular

<? Php

$pattren= ‘[$\*]’;

$my string=”RVR JC CE”;

$my string1=”CSBS”;

Echo preg\_replace ($pattren, $my string, $my string1)

?>