LetsUpgrade

JavaScript Assignment

Day-4

Submitted by

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Ques1. Create a for loop that iterates up to 100 while outputting "fizz" at multiples of 3, "buzz" at multiples of 5 and "fizzbuzz" at multiples of 3 and 5.

```
Ans document.write("<br><br><bb>LESSON 3: PRINT NUMBERS FROM 1 TO 100</b><br><br/>');
```

```
for (var x=1; x <= 100; x++)
{
    if( x % 3 && x % 5 )
    {
        document.write(x);
    } else
    {
        if( x % 3 == 0 )
        {
            document.write("fizz");
        }
        if( x % 5 == 0 )
        {
            document.write("buzz");
        }
}</pre>
```

```
}
document.write('<br>');
}
```

Ques2. Destructure the following object

```
const student = {
    name: "Helsinki",
    age: 24,
    projects: {
        diceGame: "Two player dice game using JavaScript"
    }
}
```

```
Ans const student=
{
name: "hello",
age:23,
projects:
{
diceGame: "Two players dice game using javascript"
}
};
for(const[key,value] of Object.entries(student))
{
alert(`${key}:${value}`);
}
```

Ques3. Imagine you are going out to do some grocery shopping. So you have an array called shoppingList with all the products you want to buy. Now that you are inside of

the shop, you have a basket with all the products from your list, but you want to add a few more. Create a new array called shoppingBasket, that will be a copy of the shoppingList array, and add some new products into it.

```
Ans <script>
var shoppingList=["grams ","flour ","brinjal ","cabbage ","wheat flour ","black pepper
","curry leaves ,"];
var shoppingBasket=["spinach ","mutton ","egg ","fish ","yogurt ","semolina."];
var combine=shoppingList+shoppingBasket;
document.write(combine);
</script>
Ques4. Make a Calculator in Javascript which can do operations as Addtion,
Subtraction, Multiplication, Division, Square root, Percentage.
Ans <script>
var number=prompt("Enter the operation number to be performed\n"+"1. Addition\n"+"2.
Subtraction\n"+"3. Multiplication\n"+"4. Division\n"+"5. Square root\n"+"6. Percentage","")
if(number==1)
{
var num1=Number(prompt("Enter first number for addition",""));
var num2=Number(prompt("Enter second number for addition",""));
var result=num1+num2;
var show=prompt("Your result is",result);
}
if(number==2)
var num1=Number(prompt("Enter first number for subtraction",""));
var num2=Number(prompt("Enter second number for subtraction",""));
var result=num1-num2;
var show=prompt("Your result is",result);
}
if(number==3)
```

```
{
var num1=Number(prompt("Enter first number for Multiplication",""));
var num2=Number(prompt("Enter second number for Multiplication",""));
var result=num1*num2;
var show=prompt("Your result is",result);
}
if(number==4)
var num1=Number(prompt("Enter first number for Division",""));
var num2=Number(prompt("Enter second number for Division",""));
var result=num1/num2;
var show=prompt("Your result is",result);
}
if(number==5)
{
var num1=Number(prompt("Enter the number for Square root",""));
var result=Math.sqrt(num1);
var show=prompt("Your result is",result);
}
if(number==6)
var num1=Number(prompt("Enter first number for Percentage",""));
var num2=Number(prompt("Enter second number for Percentage",""));
var result=(num2/num1)*100;
var show=prompt("Your result is",result);
}
</script>
```

Ques5. You are managing a sales department for your company, you want to reward your employees based on the sales made by them during the year. The criteria is as follows:

```
1. Sales from 0-5000 : 2%
2. Sales from 5001 - 10000 : 5%
3. Sales from 10001 - 20000 : 7%
4. Above 20000 - 10%
Then log the total commission earned by him.
Ans <script>
var sales=Number(prompt("Enter the total number of sales"));
if(sales>0 && sales <=5000)
{
var total_commission=sales*0.02;
document.write('Total commission earned by you is '+total_commission);
}
if(sales>5000 && sales <=10000)
{
var total_commission=(5000*0.02)+((sales-5000)*0.05);
document.write("Total commission earned by you is "+total_commission);
}
if(sales>10000 && sales <=20000)
var total_commission=(5000*0.02)+(5000*0.05)+((sales-10000)*0.07);
document.write("Total commission earned by you is "+total_commission);
}
if(sales>20000)
{
var total_commission=(5000*0.02)+(5000*0.05)+(10000*0.07)+((sales-20000)*0.1);
document.write("Total commission earned by you is "+total_commission);
}
</script>
```

Ques6. Rewrite the function using '?' or '||' Write a loop which prompts for a number greater than 100. If the visitor enters another number — ask them to input again. The loop must ask for a number until either the visitor enters a number greater than 100 or cancels the input/enters an empty line. Here we can assume that the visitor only inputs numbers. There's no need to implement a special handling for a non-numeric input in this task.

```
Ans <script>
var number=Number(prompt("Enter the number"));
while(true)
{
if(number==100)
{
document.write("Congrats! you have entered the correct number");
break;
}
else
{
var number=Number(prompt("Enter the number"));
continue;
}
}
</script>
```

Ques7. An integer number greater than 1 is called a prime if it cannot be divided without a remainder by anything except 1 and itself. In other words, n > 1 is a prime if

it can't be evenly divided by anything except 1 and n. For example, 5 is a prime, because it cannot be divided without a remainder by 2, 3 and 4.

Write the code which outputs prime numbers in the interval from 2 to n.

For n = 10 the result will be 2,3,5,7. P.S. The code should work for any n, not be hard-tuned for any fixed value

```
Ans <script>
number=Number(prompt("Enter the maximum number"))
var string="";
for(var i=1;i<number;i++)</pre>
for(var j=i;j<=1;j--)
{
var count=0;
if(i\% j==0)
{
count+=1;
}
if(count==2)
{
string=string+i+"<br>";
}
}
```

```
document.write(str);
</script>
```

Ques8. Replace Function Expressions with arrow functions in the code below:

```
function ask(question, yes, no) {
  if (confirm(question)) yes()
  else no();
}

ask(
  "Do you agree?",
  function() { alert("You agreed."); },
  function() { alert("You canceled the execution."); }
);
```

Ans

```
Let ask=(question, yes, no)=>
{
   if(confirm(question))yes()
   else no();
}
   ask("do you agree?",
   Yes=>{alert("you agreed")},
   No=>{alert("you cancelled the execution"),}
);
```