**Day 4 Assignment**

**JavaScript Essentials**

**Answer 1:**

for (let i = 1; i <= 100; i++) {

if (i % 15 === 0)

console.log("fizzbuzz");

else if (i % 3 === 0)

console.log("fizz");

else if (i % 5 === 0)

console.log("buzz");

}

**Answer 2:**

const student = {

name: "Helsinki",

age: 24,

projects: {

diceGame: "Two player dice game using JavaScript"

}

}

for (key in student) {

console.log(`The key is ${key} and the value is ${student[key]}`);

}

**Answer 3:**

let shoppingList = ['Bread', 'Eggs', 'Butter', 'Chicken', 'Potatoes', 'Ketchup', 'Mayonnaise', 'Biscuits', 'Fish', 'Jam'];

let shoppingBasket = [];

let i = 0;

while (shoppingList[i]) {

shoppingBasket.push(shoppingList[i])

i++;

}

shoppingBasket.push('Brinjal');

shoppingBasket.push('Oil');

shoppingBasket.push('Soybean');

shoppingBasket.push('Milk');

shoppingBasket.push('Peas');

console.log(shoppingBasket);

**Answer 4:**

let operator = prompt("enter an operator:");

switch (operator) {

case '+':

let a = parseInt(prompt("Enter first number:"));

let b = parseInt(prompt("Enter second number:"));

console.log(a + b);

break;

case '-':

let c = parseInt(prompt("Enter first number:"));

let d = parseInt(prompt("Enter second number:"));

console.log(c - d);

break;

case '/':

let e = parseInt(prompt("Enter first number:"));

let f = parseInt(prompt("Enter second number:"));

console.log(e / f);

break;

case '\*':

let g = parseInt(prompt("Enter first number:"));

let h = parseInt(prompt("Enter second number:"));

console.log(g \* h);

break;

case '%':

let i = parseInt(prompt("Enter first number:"));

let j = parseInt(prompt("Enter second number:"));

console.log(i \* 100 / j);

break;

case '^':

let k = parseInt(prompt("Enter the number:"));

console.log(Math.sqrt(k));

break;

}

**Answer 5:**

let sales = parseInt(prompt("Enter the sale amount:"));

let total\_commision = 0;

if (0 <= sales && sales <= 5000) {

total\_commision = 0.02 \* sales;

} else if (5001 <= sales && sales <= 10000) {

total\_commision = 0.05 \* sales;

} else if (10001 <= sales && sales <= 20000) {

total\_commision = 0.07 \* sales;

} else if (20001 <= sales) {

total\_commision = 0.1 \* sales;

}

console.log(total\_commision);

**Answer 6:**

**Answer 7:**

**Answer 8:**