Bài 1:

```
!DOCTYPE html>
   <title>Div Container Example</title>
           display: flex;
           flex-wrap: wrap;
       .number {
          width: 50px;
           height: 50px;
           display: flex;
           align-items: center;
           margin: 5px;
           font-weight: bold;
           background-color: lightgreen;
          background-color: yellow;
          background-color: red;
          max-width: 1000px;
          margin-left: auto;
           margin-right: auto;
           margin-top: 10px;
```

```
text-align: center;
        font-size: 50px;
    input {
        padding: 10px;
        width: 300px;
        border-radius: 10px;
        margin-bottom: 10px;
    button {
        margin-left: 10px;
        background-color: green;
        padding: 10px;
        border-radius: 10px;
        text-align: left;
        display: inline-block;
        margin-left: 10px;
<div class="main">
    <div class="">
        <h1>Generate Number</h1>
        <h2>RIKKEI ACADEMY FUKUOKA</h2>
        <input id="number" type="text">
        <button onclick="generateNumber()">Generate Number</button>
```

```
function generateNumber() {
document.getElementById('number-container');
            var inputElement = document.getElementById("number");
            let number = inputElement.value;
            let errorEle = document.getElementById("error-span");
            if (isNaN(number) || number === "") {
                errorEle.innerText = "Hãy nhập 1 chữ số vào input"
            } else if (number <= 0) {</pre>
            for (var i = 1; i <= number; i++) {</pre>
                var numberDiv = document.createElement('div');
                numberDiv.textContent = i;
                numberDiv.classList.add('number');
                    numberDiv.classList.add('even');
                    numberDiv.classList.add('odd');
                if (isPrime(i)) {
                    numberDiv.classList.add('prime');
                container.appendChild(numberDiv);
        function isPrime(num) {
```

```
for (let i = 3; i <= Math.sqrt(num); i += 2) {
        if (num % i === 0) {
            return false;
        }
    }
    return true;
}
</script>
</body>
</html>
```

Bài 2:

<!DOCTYPE html>

```
<html lang="en">
   <title>RK ACADEMY</title>
       .completed {
           background-color: green;
           background-color: yellow;
           background-color: red;
   <div class="wrapper">
       <h1>HELLO EVERYBODY 2023</h1>
       <div id="clock"></div>
       <h2>Thử thách bản thân với javascript</h2>
```

```
Thử thách học code với RK ACADEMY
           Thử thách bản thân lĩnh vực mới
           Thử thách 6 tháng fullstack
       function changeYearColor() {
           var year = new Date().getFullYear();
           var yearElement = document.querySelector('.wrapper h1');
           yearElement.style.color = getRandomColorAndText()[0];
           yearElement.textContent = `Chào mừng đến với rikkei
academy ${year}`;
       function changeDateTimeBackground() {
           var dateTimeElement = document.querySelector('.wrapper
h2');
           dateTimeElement.style.backgroundColor =
getRandomColorAndText()[0];
           dateTimeElement.innerHTML = getRandomColorAndText()[1];
       function getRandomColorAndText() {
           var randomIndex = Math.floor(Math.random() *
colors.length);
           return [colors[randomIndex], texts[randomIndex]];
       function applyChallengeStatus() {
           var nvgElement = document.getElementById('nvg');
           var academyElement = document.getElementById('academy');
           var chanceElement = document.getElementById('chance');
           var fullstackElement =
document.getElementById('fullstack');
```

```
nvgElement.classList.add('completed');
           academyElement.classList.add('ongoing');
           chanceElement.classList.add('coming');
           fullstackElement.classList.add('coming');
       function updateClock() {
           var clockElement = document.getElementById('clock');
           clockElement.style.fontSize = "40px";
           clockElement.style.textAlign = "center";
           clockElement.style.background = getRandomColorAndText()[0];
           var currentTime = new Date();
           var hours = currentTime.getHours();
           var minutes = currentTime.getMinutes();
           var seconds = currentTime.getSeconds();
           var formattedHours = ('0' + hours).slice(-2);
           var formattedMinutes = ('0' + minutes).slice(-2);
           var formattedSeconds = ('0' + seconds).slice(-2);
           var timeString = formattedHours + ':' + formattedMinutes +
: ' + formattedSeconds;
           clockElement.textContent = timeString;
       setInterval(updateClock, 1000);
       setInterval(changeYearColor, 1000);
       setInterval(changeDateTimeBackground, 1000);
       applyChallengeStatus();
```

Bài 3:

```
<!DOCTYPE html>
<html>
<head>
<style>
```

```
.container {
    display: flex;
    flex-direction: column;
    gap: 50px;
    align-items: center;
    justify-content: center;
    height: calc(100vh - 50px);
   padding: 20px;
    font-size: 28px;
    background-color: white;
    display: flex;
    justify-content: center;
    align-items: center;
    width: 80px;
    height: 80px;
    font-size: 50px;
    font-weight: 600;
span {
    font-weight: 700;
    font-weight: 700;
document.addEventListener('keydown', function (event) {
    var keyCode = event.keyCode;
    var keyName = event.key.toUpperCase();
```

Bài 4:

Bai4.html

```
<!DOCTYPE html>
<html>
<head>
 <title>World Countries Data</title>
 <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
 <h1 class="center">World Countries Data</h1>
 <div class="button-container center">
   <button id="population-button">Population
   <button id="language-button">Languages</button>
 </div>
 <div id="title"></div>
 <div id="chart-container" class="center"></div>
 <script src="script.js"></script>
</body>
</html>
```

style.css

```
body {
    font-family: Arial, sans-serif;
}

h1.center {
    text-align: center;
}

.button-container.center {
    text-align: center;
    margin-top: 20px;
}

#chart-container {
    width: 700px;
    margin: 10px auto;
}

.chart {
    margin-bottom: 5px;
}
```

```
.bar {
   height: 30px;
   background-color: #2196F3;
.country-data {
   margin-top: 5px;
    text-align: center;
.div-item {
   display: flex;
   gap: 10px;
   align-items: flex-start;
   margin-top: 10px;
.div-item > div {
   min-width: 100px;
    text-align: left;
#title{
   text-align: center;
   margin-top: 10px;
button {
   padding: 8px;
   width: 120px;
   background-color: rgb(255, 174, 0);
   border: none;
   border-radius: 5px;
```

script.js

```
{ country: "Pakistan", population: 225199937 },
    { country: "Brazil", population: 213993437 },
    { country: "Nigeria", population: 211400708 },
    { country: "Bangladesh", population: 166303498 },
    { country: "Russia", population: 145912025 },
    { country: "Mexico", population: 130262216 }
];
// Language data
const languageData = [
    { language: "English", speakers: "91" },
    { language: "French", speakers: "45" },
    { language: "Arabic", speakers: "25" },
    { language: "Spanish", speakers: "24" },
    { language: "Portuguese", speakers: "9" },
    { language: "Russian", speakers: "9" },
    { language: "Dutch", speakers: "8" },
    { language: "German", speakers: "7" },
    { language: "Chinese", speakers: "5" },
    { language: "Serbian", speakers: "4" }
1;
// Create population chart
function createPopulationChart() {
   const chartContainer = document.getElementById('chart-container');
   let title = document.getElementById('title');
   title.textContent = 'Top 10 quốc gia có dân số đông nhất thế giới'
   chartContainer.innerHTML = '';
   populationData.forEach(data => {
        let divItem = document.createElement('div');
        divItem.classList.add('div-item');
       let nameCountry = document.createElement('div');
       nameCountry.classList.add('country-data');
       nameCountry.textContent = `${data.country}`;
        divItem.appendChild(nameCountry);
        let bar = document.createElement('div');
       bar.classList.add('bar');
       bar.style.width = `${ (data.population /
populationData[0].population) * 100}%;
       divItem.appendChild(bar);
```

```
let population = document.createElement('div');
       bar.classList.add('bar');
       population.textContent = `${data.population}`;
       divItem.appendChild(population);
        chartContainer.appendChild(divItem)
    });
// Create language chart
function createLanguageChart() {
   const chartContainer = document.getElementById('chart-container');
   let title = document.getElementById('title');
    title.textContent = 'Top 10 ngôn ngữ được nói nhi ều nhất trên th ế
qiới'
   chartContainer.innerHTML = '';
   languageData.forEach(data => {
        let divItem = document.createElement('div');
       divItem.classList.add('div-item');
        let nameCountry = document.createElement('div');
       nameCountry.classList.add('country-data');
       nameCountry.textContent = `${data.language}`;
       divItem.appendChild(nameCountry);
       let bar = document.createElement('div');
       bar.classList.add('bar');
       bar.style.width = `${(parseFloat(data.speakers) /
parseFloat(languageData[0].speakers)) * 100}%`;
        divItem.appendChild(bar);
       let speakers = document.createElement('div');
       bar.classList.add('bar');
        speakers.textContent = `${data.speakers}`;
       divItem.appendChild(speakers);
        chartContainer.appendChild(divItem);
    });
```