

**1) Write a program to remove all numbers and replaces all special characters with a space from a string**

**Python:**

```
word = input()
result_list = []
for c in word:
    if not c.isalnum() and not c.isspace():
        result_list.append(" ")
    elif c.isdigit():
        pass
    else:
        result_list.append(c)
result_string = ''.join(result_list)
print(result_string)
```

**2) Write a program to convert all odd length string as, first half of the string to lowercase and second half of string to lowercase.**

**Actual string: transformed string**

**oriJenBeliret - ORIJENbeliret**

**orionmeo - orionmeo**

**Python:**

```
string_input = input()
str_len = len(string_input)

if str_len % 2 != 0:
    half_len = (str_len // 2) + 1
    modified_string = string_input[:half_len].upper() + string_input[half_len:].lower()
else:
    modified_string = string_input.lower()

print(string_input + " - " + modified_string)
```

**3) Write a program to find second and fourth greatest number in an list of numbers (if length of list is less than 4, should give error message in response)**

**Python:**

```
input_list = [2, 6, 7, 4, 8, 1]
if len(input_list) >= 4:
    sorted_numbers = sorted(input_list, reverse=True)
    print("First Greatest Number:", sorted_numbers[0])
    print("Fourth Greatest Number:", sorted_numbers[3])
else:
    print("Minimum 4 numbers are required")
```

**4) Write a html page code with css, which can convert string date in certain format into given format using javascript.**

**For example: Box: inputDate - 12/11/2012**

**Box: inputFormat - DD/MM/YYYY**

**Box: expectedFormat - MM/YYYY/DD**

**Output Button [ on click ] the output should be - 11/2012/12 and displayed in a new Box Also ensure that the entire page is precisely centered both horizontally and vertically on the web page. You can use any styles or color schemes of your choice.**

```
<!DOCTYPE html>
<html>
<head>
  <title>Date Conversion</title>
  <style>
    body {
      display: flex;
      flex-direction: column;
      align-items: center;
      justify-content: center;
      height: 100vh;
      margin: 0;
    }
    div{
      background-color: bisque;
      padding: 40px;
      border-radius: 15px;
    }

    label {
      margin-bottom: 10px;
      font-size: 20px;
    }

    input[type="date"] {
      padding: 8px;
      font-size: 14px;
    }
    button {
      margin-top: 10px;
      color: white;
```

```
        background-color: black;
        cursor: pointer;
        padding: 10px;
        border: 0px solid;
        border-radius: 5px;
    }
    p{
        font-size: 20px;
    }
    span{
        background-color: black;
        color: white;
        font-weight: bold;
    }
</style>
</head>
<body>
    <div>
        <label for="inputDate">Select a date:</label>
        <input type="date" id="inputDate">
        <button onclick="convertDate()">Read Date</button>
        <p>Formatted Date: <span id="output"></span></p>
    </div>
    <script>
        function convertDate() {
            const selectedDate = document.getElementById('inputDate').value;
            const day = selectedDate.slice(8, 10);
            const month = selectedDate.slice(5, 7);
            const year = selectedDate.slice(0, 4);
            document.getElementById('output').innerText = `${month}/${year}/${day}`;
        }
    </script>
</body>
</html>
```

Select a date:

07 - 02 - 2024

📅

Read Date

Formatted Date: 02/2024/07

5) Write a html/css/javascript code to create a frontend page, to show electronic device information. The page will contain, multiple clickable text fields with name of devices ( MobilePhone, Laptop, Desktop,...) On click to any of the text, it opens a new tab/iframe to show description (any random details) of the selected device. Can use any react/angular/css to make the page look good visually.

```
<!DOCTYPE html>
<head>
  <title>Products</title>
  <style>
    body {
      text-align: center;
      background-color: chartreuse;
    }

    .c{
      background-color: blanchedalmond;
      padding: 10px;
      margin: 15px;
      border-radius: 20px;
    }

    .product {
      display: inline-block;
      margin: 20px;
      background-color: aquamarine;
      font-weight: bold;
    }
```

```

.product img {
  width: 170px;
  height: 170px;
  cursor: pointer;
  padding: 5px;
  border-radius: 6px;
}

.product p {
  margin-top: 10px;
}
</style>
</head>
<body>

<div class="c">
  <h1>Mobile's</h1>
  <div class="product" onclick="redirect('http://surl.li/plewz')">
    
    <p>Realme narzo N53</p>
  </div>
  <div class="product" onclick="redirect('http://surl.li/plezr')">
    
    <p>Redmi 13C</p>
  </div>
  <div class="product" onclick="redirect('http://surl.li/plfbb')">
    
    <p>OnePlus Nord CE 3</p>
  </div>
  <div class="product" onclick="redirect('http://surl.li/plewz')">
    
    <p>Apple iPhone 13</p>
  </div>
  <div class="product" onclick="redirect('http://surl.li/plezr')">
    
    <p>Apple iPhone 15 Pro</p>
  </div>
  <div class="product" onclick="redirect('http://surl.li/plfbb')">
    
    <p>Redmi A2</p>
  </div>
</div>
<div class="c">

```

```
<h1>Laptop's</h1>
<div class="product" onclick="redirect('http://surl.li/plewz')">
  
  <p>HP Laptop 15s</p>
</div>
<div class="product" onclick="redirect('http://surl.li/plezr')">
  
  <p>Dell 15 Laptop</p>
</div>
<div class="product" onclick="redirect('http://surl.li/plfbb')">
  
  <p>Acer Travelmate</p>
</div>
<div class="product" onclick="redirect('http://surl.li/plewz')">
  
  <p>HP Laptop 15s</p>
</div>
<div class="product" onclick="redirect('http://surl.li/plezr')">
  
  <p>HP Laptop 15</p>
</div>
<div class="product" onclick="redirect('http://surl.li/plfbb')">
  
  <p>Lenovo IdeaPad Slim 1</p>
</div>
</div>

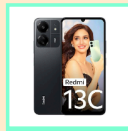
<script>
  function redirect(link) {
    window.open(link, '_blank');
  }
</script>

</body>
</html>
```

### Mobile's



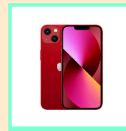
Realme narzo N53



Redmi 13C



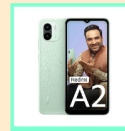
OnePlus Nord CE 3



Apple iPhone 13

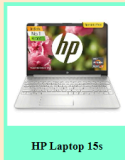


Apple iPhone 15 Pro



Redmi A2

### Laptop's



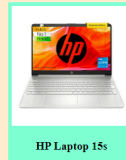
HP Laptop 15s



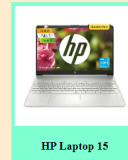
Dell 15 Laptop



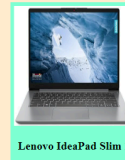
Acer Travelmate



HP Laptop 15s



HP Laptop 15



Lenovo IdeaPad Slim 1

<https://github.com/yarlagaddarakesh/BB/tree/main/EZEE.AI>