

1. Write a function to create a 2-D List/Array with random integers between 0 to 100. This function should take two arguments - numberOfRows and numberOfColumns and return a 2D list.
2. Write a function to sort the 2-D list based on column index keeping the rows intact. This function should take two arguments - 2D list created above and column Index and return sorted 2D list.

Example:

```
...  
[  
  [21, 4, 79],  
  [6, 34, 43],  
  [15, 54, 23],  
]  
...
```

For the above 2D list, if sorted based on column Index - 2, below should be the result.

```
...  
[  
  [15, 54, 23],  
  [6, 34, 43],  
  [21, 4, 79],  
]  
...
```

3. Please write the code for below question:-

```
// Sample Input  
const awards = [  
  {  
    name: 'James Peebles',  
    category: 'Physics',  
    research: 'Theoretical discoveries in physical cosmology',  
    year: 2019,  
  },  
  {  
    name: 'Michel Mayor',  
    category: 'Physics',  
    research: 'Discovery of an exoplanet orbiting a solar-type star',  
    year: 2019,  
  },  
  {  
    name: 'Didier Queloz',  
    category: 'Physics',  
    research: 'Discovery of an exoplanet orbiting a solar-type star',  
    year: 2019,  
  },  
]
```

```
},
{
  name: 'John B. Goodenough',
  category: 'Chemistry',
  research: 'Development of lithium-ion batteries',
  year: 2019,
},
{
  name: 'M. Stanley Whittingham',
  category: 'Chemistry',
  research: 'Development of lithium-ion batteries',
  year: 2019,
},
{
  name: 'Akira Yoshino',
  category: 'Chemistry',
  research: 'Development of lithium-ion batteries',
  year: 2019,
},
{
  name: 'Arthur Ashkin',
  category: 'Physics',
  research: 'Optical tweezers and their application to biological systems',
  year: 2018,
},
{
  name: 'Gerard Mourou',
  category: 'Physics',
  research: 'Method of generating high-intensity, ultra-short optical pulses',
  year: 2018,
},
{
  name: 'Donna Strickland',
  category: 'Physics',
  research: 'Method of generating high-intensity, ultra-short optical pulses',
  year: 2018,
},
{
  name: 'Frances H. Arnold',
  category: 'Chemistry',
  research: 'Directed evolution of enzymes',
  year: 2018,
},
{
  name: 'George P. Smith',
  category: 'Chemistry',
  research: 'Phage display of peptides and antibodies.',
  year: 2018,
},
},
```

```

{
  name: 'Sir Gregory P. Winter',
  category: 'Chemistry',
  research: 'Phage display of peptides and antibodies.',
  year: 2018,
},
];

```

// Required Output

```

const prizes = [
  {
    category: 'Physics',
    year: 2019,
    winners: [
      { name: 'James Peebles', share: 0.5 },
      { name: 'Michel Mayor', share: 0.25 },
      { name: 'Didier Queloz', share: 0.25 },
    ],
  },
  {
    category: 'Chemistry',
    year: 2019,
    winners: [
      { name: 'John B. Goodenough', share: 0.3333 },
      { name: 'M. Stanley Whittingham', share: 0.3333 },
      { name: 'Akira Yoshino', share: 0.3333 },
    ],
  },
  {
    category: 'Physics',
    year: 2018,
    winners: [
      { name: 'Arthur Ashkin', share: 0.5 },
      { name: 'Gerard Mourou', share: 0.25 },
      { name: 'Donna Strickland', share: 0.25 },
    ],
  },
  {
    category: 'Chemistry',
    year: 2018,
    winners: [
      { name: 'Frances H. Arnold', share: 0.5 },
      { name: 'George P. Smith', share: 0.25 },
      { name: 'Sir Gregory P. Winter', share: 0.25 },
    ],
  },
];

```