1. Create a function to print an equilateral triangle

```
Function triangle (){
Let star="";
For(let i=0;i<5;i++){
        For(let j=0;j<=1;j++){
                 Star +="*";
        }
}
triangle();
2. Write a function to sort an array
let arr=[5,3,8,1,2];
function sortArray(arr){
  for(let i=0;i<arr.length;i++){</pre>
    for(let j=0;j<arr.length-1;j++){</pre>
       if(arr[j]>arr[j+1]){
         let temp=arr[j];
         arr[j]=arr[j+1];
         arr[j+1]=temp;
       }
    }
  }
  console.log(arr);
}
sortArray(arr);
```

4. Write a function to find the maximum number and second maximum number

```
let arrNumber=[5,1,8,3,8,2];
function findMaxNumber(arrNumber){
  let maxNumber=arrNumber[0];
  let sMaxNumber=arrNumber[0];
  for(let i=1;i<arrNumber.length;i++){</pre>
    if(arrNumber[i]>arrNumber[i+1]){
      maxNumber=arrNumber[i];
    }
    if(arrNumber[i]>arrNumber[i+1] && arrNumber[i+1]<maxNumber ){</pre>
    sMax=arrNumber[i];
  }
  }
  console.log(maxNumber);
  console.log(sMaxNumber);
}
findMaxNumber(arrNumber);
10. b. SQL Injection
7.
       A.13
       D.6
6.
       1.4
       2.
       3. c
       4
       5. d
```

```
9.a. 201
8.a. Content-Security-Policy
10.b.SQL injection
12. Mysql
1. data type and length in all the above tables' fields
Create table staffs (
  id Int(11) primary key auto_increment,
  name varchar(100) not null,
  sex enum('m', 'f') not null,
  date_of_birth date not null,
  address varchar(255),
  phone varchar(20)
);
create table positions (
  id INT(11) primary key auto_increment,
  staff_id int(11) not null,
  position varchar(100) not null,
  start_date date not null,
  end_date date null,
  foreign key (staff_id) references staffs(id)
);
2. Write a raw query to select data for the following list.
select
 s.id AS 'Staff ID',
  s.name AS 'Name',
  s.sex AS 'Sex',
  s.date_of_birth AS 'Date of Birth',
  s.address AS 'Address',
  s.phone AS 'Phone',
```

```
p.position AS 'Current Position'
  FROM
  staffs s
  LEFT JOIN
  positions p ON s.id = p.staff_id
2.
SELECT
  s.id AS 'Staff ID',
  s.name AS 'Name',
  s.sex AS 'Sex',
  s.date_of_birth AS 'Date of Birth',
  s.address AS 'Address',
  s.phone AS 'Phone',
  p.position AS 'Current Position', Worked'
FROM
  staffs s
JOIN
  positions p ON s.id = p.staff_id
WHERE
  (p.end_date > 5)
3. Write a function to check whether a given number is a prime number
function isPrime(n) {
  if (n <= 1) return false;
  if (n === 2) return true;
  if (n % 2 === 0) return false;
  return true;
}
11.write javascript
```

```
function countWorkingDays(year) {
    let totalDays = 0;
    return totalDays;
}

console.log(countWorkingDays(2024));

5. Database Optimization

SELECT
    customers.id,
    customers.name

FROM
    customers

JOIN
    orders ON customers.id = orders.customer_id
```