# Core Javascript-1 Assignment Solution

Q1. Write a program that grades students based on their marks.

- · If greater than 90 then A Grade
- If between 70 and 90 then a B grade
- If between 50 and 70 then a C grade
- · Below 50 then an F grade

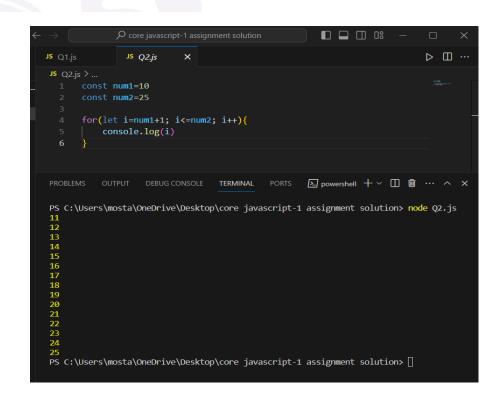
# **Answer:**

#### Q2. Generate numbers between any 2 given numbers.

Ex.

Const num1 = 10; Const num2 = 25;

Output: 11,12,13,....., 25



Q3. Use a nested ternary operator to check that a number is positive, negative or zero. You have to print "positive" if the number is positive and similarly for negative and zero also.

Answer:

```
JS Q3.js \ ...

1     Var number=5;

2     (number>0)? console.log("positive"):(number<0)? console.log('Negative'): console.log('zero')

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\mosta\OneDrive\Desktop\core javascript-1 assignment solution> node Q3.js positive
PS C:\Users\mosta\OneDrive\Desktop\core javascript-1 assignment solution> []
```

Q4. Describe the usage of the comma operator in JavaScript and provide an example.

Answer: Comma operator is used to write multiple expressions in a single statement. Example-

```
JS Q4.js > ...

1  var a=10, b=20, c=30
2  console.log(a,b,c)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\mosta\OneDrive\Desktop\core javascript-1 assignment solution> node Q4.js
10 20 30
PS C:\Users\mosta\OneDrive\Desktop\core javascript-1 assignment solution> []
```

Q5. You're creating a basic login system. Make a login function with two things: a username and a password. Check if the username is "admin" and the password is "12345". If they're both correct, show "Login successful"; if not, show "Invalid credentials."

```
Core javascript-1 assignment solution
                                                                               ▶ Ⅲ …
JS Q1.js
                JS Q5.js
JS Q5.js > ...
       let username= 'admin'
       let password= '12345'
       if(username=='admin' && password=='12345'){
           console.log('login successful')
       }else{
           console.log('invalid credentials')
  8

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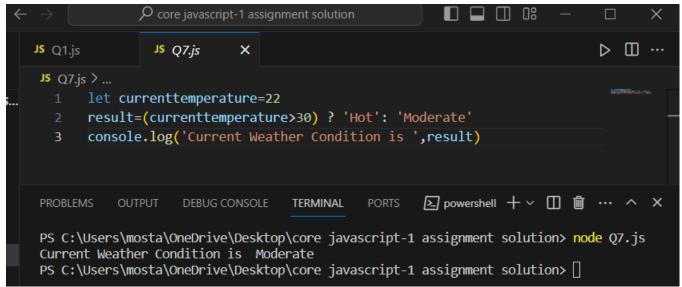
                                   TERMINAL
PS C:\Users\mosta\OneDrive\Desktop\core javascript-1 assignment solution> node Q5.js
login successful
PS C:\Users\mosta\OneDrive\Desktop\core javascript-1 assignment solution> []
```

Q6. You are working on an e-commerce platform. Write a JavaScript program that takes the payment method ("credit", "debit", or "paypal") as input and uses a switch statement to determine and print the processing fee associated with each payment method. For example, "credit" may have a processing fee of 2%, "debit" 1.5%, and "paypal" 3%.

Answer:

```
JS Q1.js
                                                                         ▷ Ⅲ …
               JS Q6.js
JS Q6.js > ...
      let paymentmethod='debit'
      switch(paymentmethod){
          case'credit':
          console.log('processing fee for credit payment is 2%')
          case'debit':
          console.log('processing fee for debit payment is 1.5%')
          break
          case'paypal':
          console.log('processing fee for paypal is 3%')
          break
              console.log('invalid credentials')
                                 TERMINAL PORTS ≥ powershell + ∨ □ 🛍 ··· ^ ×
PS C:\Users\mosta\OneDrive\Desktop\core javascript-1 assignment solution> node Q6.js
processing fee for debit payment is 1.5%
PS C:\Users\mosta\OneDrive\Desktop\core javascript-1 assignment solution> []
```

Q7. You are building a weather application. Write a JavaScript program that takes the current temperature as input and uses the conditional (ternary) operator to determine and print the weather condition. If the temperature is above 30°C, the condition is "Hot"; otherwise, it is "Moderate".



Q8. You are creating a program to calculate the sum of numbers. Write a JavaScript program that takes a positive integer as input and uses a do-while loop to calculate and print the sum of all numbers from 1 to the given integer.

