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| **No** | **Question** |
| No  1 | Write a code to find area of rectangle.  ○ Example : length = 5, width = 3  ○ Output : 15 |
| Answer | Define variable and assign value to variable  const length = 5  const width = 3  Define the variable to keep the result and implement the formula for the area of rectangle  const area = length\*width |
| 2 | Write a code to find perimeter of rectangle.  ○ Example : length = 5, width = 3  ○ Output : 16 |
| Answer | Define variable and assign value to variable  const length = 5  const width = 3  define the variable to keep the result and implement the formula for the perimeter of a rectangle  const perimeter = 2\*(length+width) |
| 3 | Write a code to find the diameter, circumference, and area of a circle.  ○ Example : radius = 5  ○ Output : diameter = 10, circumference = 31.4159, area = 78.539 |
| Answer | Define variable and assign value to variable  const radius = 5  const phi= 3.14  define the variable to keep the result and implement the formula for diameter of a circle  const diameter = 2\* radius  define the variable to keep the result and implement a formula for the circumference of a circle  const circumference = phi \* diameter  define the variable to keep the result and implement the formula for the area of a circle  const area = phi\*radius\*radius  const area = phi\*radius\*\* |
| 4 | Write a code to find angles of triangle if two angles are given.  ○ Example : a = 80, b = 65  ○ Output : 35 |
| Answer | Define variable and assign value to variable  Const a = 80  Const b= 65  define the variable to keep the result and implement the formula for angle of triangle  const angles = 180 – ( a+b) |
| 5 | Write a code to convert days to years, months and days (Notes: 1 year : 365 days, 1 month : 30 days).  ○ Example : 400 days → 1 year, 1 month, 5 days  ○ Example: 366 days → 1 year, 0 month, 1 day |
| Answer | Define variable and assign value to variable  let numberday1 = 400  let numberday2 = 366  define the variable to keep the result and implement the formula for converting numberday 1  let year = Math.floor(numberday1/365);  let month = Math.floor (numbeday1%365)/30);  let day = ((numberday1%365)%30);  console.log (year);  console.log (month);  console.log(day);  define the variable to keep the result and implement the formula for converting numberday 2  let year = Math.floor(numberday2/365);  let month = Math.floor (numbeday2%365)/30);  let day = ((numberday2%365)%30);  console.log (year);  console.log (month);  console.log(day); |
| 6 | Write a code to get difference between dates in days.  ○ Example : date1 = 2022-01-20, date2 = 2022-01-22 (year/month/day)  ○ Output : 2  Pr  From ISO date to long date  From  Year/month/day (info case)  To  MM/dd/YY  Js get  If new date (year,month,day,hours, minutes, seconds,ms) |
| Answer | Define variable and assign value to variable  let date1 = new date(‘ 20/01/2022’)  let date2 = new date (‘22/01/2022’)  define the variable to keep the result and implement the formula to get the difference between dates in days  let diffDays = date2 – date1  console.log (diffDays)  cara kedua  **Pertanyaan**  Write a code to get difference between dates in days.  ○ Example : date1 = 2022-01-20, date2 = 2022-01-22  ○ Output : 2  Define variable and assign value to variable |

**MODUL 2 EXERCISE**

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| **No.** | **Question** |
| 1 | Write a code to check whether the number is odd or even  ○ Example: 25 → odd number, 2 → even number |
| Answer |  |
| 2 | Write a code to check whether the number is prime number or not  ○ Example: 7 → 7 is a prime number  ○ Example: 6 → 6 is not a prime number |
| Answer |  |
| 3 | Write a code to find the sum of the numbers 1 to N  ○ Example: 5 → 1 + 2 + 3 + 4 + 5 = 15  ○ Example: 3 → 1 + 2 + 3 = 6 |
| Answer |  |
| 4 | Write a code to find factorial of a number  ○ Example: 4! → 4 x 3 x 2 x 1 = 24  ○ Example: 6! → 6 x 5 x 4 x 3 x 2 x 1 = 720 |
| Answer |  |
| 5 | Write a code to print the first N fibonacci numbers  ○ Example: 15 → 610 |
| Answer |  |

**Modul Exercise 3**

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| --- | --- |
| **No** | **Question** |
| 1 | Write a code to swap the case of each character from string  ○  Example : ‘The QuiCk BrOwN Fox’ -> ‘ tHE qUIcK bRoWn fOX’ |
| Answer |  |
| 2 | ● Write a code to find the largest of two given integers  ○  Example : num1 = 42, num2 = 27 → 42 |
| Answer |  |
| 3 | ● Write a conditional statement to sort three numbers  ○  Example : num1 = 42, num2 = 27, num3 = 18 → 18, 27, 42 |
| Answer |  |
|  |  |
| 4 | ● Write a code that shows 1 if the input is a string, 2 if the input is a number, and 3 for others data  type.  ○  Example : “hello” → 1 |
| Answer |  |
| 5 | ● Write a code to change every letter a into \* from a string of input  ○  Example : ‘An apple a day keeps the doctor away’ -> `\*n \*pple \* d\*y keeps the doctor \*w\*y |
| Answer |  |

**Modul Exercise 4**

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| **No** | **Question** |
| 1 | * Create a function that can create a triangle pattern according to the height we provide like the   following :  **01**  **02 03**  **04 05 06**  **07 08 09 10**  ● Parameters : **height** → triangle height |
| Answer |  |
|  | * Create a function that can loop the number of times according to the input we provide, and will   replace **multiples of 3** with "**Fizz**", **multiples of 5** with "**Buzz**", **multiples of 3 and 5** with  "**FizzBuzz**".  ● Parameters : **n** → total looping  ○ Example: n = 6 →1, 2, Fizz, 4, Buzz, Fizz  ○ Example: n = 15 → 1, 2, Fizz, 4, Buzz, Fizz, 7, 8, Fizz, Buzz, 11, Fizz, 12, 13, 14, FizzBuzz |
|  |  |
|  | Create a function to calculate Body Mass Index (BMI)  ●  Formula : **BMI = weight (kg) / (height (meter))²**  ●  Parameters : **weight** & **height**  ●  Return values :  ○  < 18.5 return “**less weight”**  ○  18.5 - 24.9 return “**ideal”**  ○  25.0 - 29.9 return “**overweight”**  ○  30.0 - 39.9 return “**very overweight”**  ○  > 39.9 return “**obesity”z** |
|  |  |
|  | Write a function to remove all odd numbers in an array and return a new array that contains even  numbers only  ○  Example : [1,2,3,4,5,6,7,8,9,10] → [2,4,6,8,10] |
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|  | Write a function to split a string and convert it into an array of words  ○  Example : “Hello World” → [“Hello”, “World”] |

