Day -19 Evening Assessment

Variables:

1. const age: number = 45;

console.log(`The age is ${age}`)

1. const username:string = “Millie”;

console.log(`Hello, ${username}`)

1. const isActive: boolean = true;

console.log(typeof isActive);

1. const a: number = 5;

const b: number = 4;

const c: number = a+b;

console.log(`${c}`)

1. let colors: string[] = [“Grey”, “Green”, “Gold”];

console.log(`The second color in the array is ${colours[1]}`)

1. const pi: number = 3.17;

pi: number = 44;

console.log(`${pi}`)

Error: Cannot assign to ‘pi’ because it is a constant.

Functions:

1. function greet(name: string): string{

returns (`Hello, ${name}`)

}

1. function addNumbers(num1: number, num2: number): number{

returns (a+b)

}

1. function isEven(num: number): string{

if num%2 == 0:

return (`${num} is Even`);

else:

return(`${num} is odd`);

}

1. function multiply(a: number, b: number = 5): number{

return a\*b;

}

1. function square=(num: number): number => num\*num;
2. function printDetails(name: string, age: number): void{

console.log(`Name: ${name}, Age: ${age}`);

}

Classes:

1. class Person{

name: string;

age: number;  
 constructor(name: string, age: number){

this.name = name;

this.age = age;

}

introduce(): void{

console.log(`Hi, I’m ${this.name} and I’m ${this.age} years old.`)

}

}

1. class Person{

name: string;

age: number;  
 constructor(name: string, age: number){

this.name = name;

this.age = age;

}

1. class Car{

brand: string;

year: number;  
 constructor(brand: string, year: number){

this.brand = brand;

this.year = year;

}

displayInfo(): void{

console.log(`Car: ${this.brand}, Year: ${this.year}`)

}

}

1. class Rectangle{

width: number;

height: number;  
 constructor(width: number, height: number){

this.width = width;

this.height = height;

}

getArea(): number{

return this.height\*this.width;

}

}

1. class Student{

name: string;

grade: string;  
 constructor(name: string, grade: string){

this.name = name;

this.grade = grade;

}

displayGrade(): void{

console.log(`Student ${this.name} has grade ${this.grade}`)

}

}

1. class BankAccount{

account\_number: number;

balance: number;  
 constructor(account\_number: number, balance: number){

this.account\_number = account\_number;

this.balance = balance;

}

deposit(amount: number): void{

this.balance += amount;

console.log(`New Balance is ${this.balance}`)

}

}