```
Objects
  Instance of a class
    closs Student
                                    Student S= new Student();
        private int sollno;
        Private String name;
                                     s. nead():
        0-
                                      s. displayes;
    3
    let obj = { }
   obj. rollno = 1001
   obj. nomo: " Amil";
                                   Key: value
   let S= & rollno: 1001,
               nome: "Anil"
                                              let s = new Student (1001, "Bril");
Class Student
    phivate rollno: number;
    private nome: string
    constructed (rollno=0, nome: "")
         this. rollno = rollno;
         this. nome = name;
     7
    public displaystudent(): void &
         console. log ("Rollno:" + this. rollno + " Name :" + this. none);
```

Z

```
ξ
```

```
function Main() {

let s = new Student (1001, "Anil");

console. log (s);

Main()
```

```
Class Employees
   private empro: number;
   private name : string;
   paivate basic: numbes;
   private da : number; 1173% of basic
   private hra: number; 1/10% of basic
   private gross: numbel; "basic + da + bra
   private it: number; // 30% of gross
   private nelsal: number; // gross-it
   private static courted: number;
   constructor ( name: " ", basic = 0) &
        this. empro = ++ (ounter;
                                           1d c1= new Eign ()
                                           10 ez = new (Fplus 1);
        this. nome = name;
        this. basic = basic;
        this, calibalary ();
   private calchalory(): void {
       4his. da = 4his. basic * 0.73;
       this. hra- this. bosic * 0.10;
       This gross= This - besic + This . da + This . hra;
       unis. it = quis. gross + 0.30;
       this. nelsal= this-gross - this-iti
   public displayEmplayee (): vsid s
        console log (" Empro:" + this eupro + "In Name:"+ this nave);
       console log ("MBasic:"+4hls.basic ----)
   public static number Of Englances (): Trumbon &
        neturn counts;
```

z

3



```
fonction Main(): vaid {

let e1 = new Employee(1001, "Anil", 10000);

et displayEmployee();

let e2 = new Employee(1002, "Kiron", 20000);

e2. chiployEmployee();

console.log ("No.et employees:" + Employee. number(Exployee)).
```

```
Class Rectonge extends shapes
       protected dimi: numbes;
                                                  private area : number;
       posoteded diaz: number;
                                                  constructor(d1, d2)f
                                                       super (di, dz);
                                                       orea= d! * Oz;
   7
   Interface
  intolare Shape &
      public sol Dimension 1 (clin1: numba): void;
      public getDimension ! (): number;
      public set Dimension 2 (dim 2: numba): void;
      public get Dimension2 (); number;
      public getAseal): number;
  7
abstrail class Shape implements shape
  1
        protected dimiz: number;
         problected ding: numba;
         constructor (dim1; nombes = 0, dim2 : numbes = 0)
             His don! don!;
            Uhls. dinz : duz;
         public set Dimensions (dim!: number) ; usid?
             This dime done;
```

Class Shape &

```
getDimension! (): number {
        return dimy;
3
class Reitargle entends Shope f
     private area: number;
     Constructor (dim!: number: 0, din2: number =0)
        Luper (dim!, diaz);
        orea = dim! + druz;
      public getArea (): numbas
         orea: this dime + this dime;
         retorn Grea;
4
   s = new Redonge (10, 20);
Console.log ("Asea:" + S-gelAsea());
```

```
class Student
    private vollno: number;
    private now: String;
    constructor (xollno: number: 0, name: string="") &
        4615 Italino = xollno;
                                                   function Man()

let s= new Student();
        His. nome: name;
     public set Rollno (rollno: number): Vaids
                                                                             S. Prolling= 1001;
                                                     s. set Rollno (1001);
         this - rollno = rollno;
                                                      s. sel Name (" Ravi")-
                                                     console.log ("Rollno:"+ S. getRollno()); -> (onsole.log ("Rollno:"+ s. Rollno);
Console.log ("Nam:" + S. gedNome());
    public getRollno(): oumbers
         retorn this hollo;
                                                   z
     public sed Nume (nome: Storing): void }
        Yuis . name : nome;
                                                      s. set Rolling ) = 1004;
     goblic gellione (1: Stoing of
         roturn this name:
                                                  S. Rollno = 1001;
     public set Rollno (rollno: number)
                                                  (et i = S. Rollmo;
          this. yollno = rollnoi
     2
     public get Rollno(): number ?
          return this Icollino;
```

- Chai

  1) assert (expression, message)

  assert (resut == 290, 'Resut is 290')
  - 2) equal (actual, espected, [menoxi])
    assert. equal (3000 H, 290)
  - 3) notEqual (actual, espected) -
  - h) Strict Equal (actual, expected)
  - 5) no/Stoict Equal (actual, esquected)
  - 6) cleepEqual (actual, expected)

    assert deepEqual (2001 nove: "Amir" }, { vollow: 1001, nove: "Amir"}
  - > not Deep Fayal
  - 8) is Above (result, 290) ~
  - 9) is AlLeast (volucio Chew, value To BeAtle at
  - 10) isBelow <
  - 11) · isAtMax <=
  - assest. isTrue (check Fuen (P))
  - 13) is NoTrue
  - 14) istable

- 15 is Not False
- 16) .in No!
- 1100/60/ki. (FI
- NOW! (4)