```
1
     //===== Constructor Function =======
2
3
      // create a function .. and function can be here like class
4
5
       // one key point is: when object is create it (this) refer object inside the function
6
       function User(){
             console.log(this); // User{} same => me
7
8
9
       // create object of this function
10
       let me = new User(); // create new object;
11
       console.log(me); // User{};
12
13
     //**** when object is created we can set value by (this) inside the function it will effect both of them */
14
15
       function Set(){
          console.log(this); // empty object => Set{};
16
17
18
          this.name = "Mehedi"; // set value into object
19
          this.Age = 20; // set value into Object
20
21
          console.log(this); // Set => Set {name: "Mehedi", Age: 20}
22
       }
23
24
       // Create New Object of
       let set = new Set();
25
       console.log(set); // Set => Set {name: "Mehedi", Age: 20};
26
27
28
29
     //***** We can pass vale creating time in Constactor ******/
30
31
       function Default(Nam){
32
          this.name = Nam;
33
34
       // create new object
35
       let passName = new Default("Mehedi");
36
       console.log(passName); // Default {name: "Mehedi"}
37
       // same function but create many objects
38
       let you = new Default("Hasan");
39
       console.log(you); // Default {name: "Hasan"}
40
41
       // two objects are created with deferent Name
       // Default {name: "Mehedi"};
42
       // Default {name: "Hasan"};
43
44
45
46
     //****** We can pass many parameter with different type ******/
47
48
       function Many(Name, Interst, Year){
49
          this.name = Name;
50
          this.intra = Interst;
          this.year = Year;
51
52
53
       // Create few Object and Output
```

lot makadi ... sarr Many/Wildhadill [libadill ||Talking|| ||Classing||] ... 0004\.

```
iet menedi = new iviany( ivienedi , [ book , Taiking , Sieeping ], ∠∪∠ i );
D4
        let Hasan = new Many("Hasan", ["Travel"], 2024);
55
56
        console.log(mehedi); // Many {name: "Mehedi", intra: Array(3), year: 2021}
57
        console.log(Hasan); // Many {name: "Hasan", intra: Array(1), year: 2024}
58
59
        // we can add property after creating object like
        mehedi.age = 20;
60
        console.log(mehedi); // Many {name: "Mehedi", intra: Array(3), year: 2021, age: 20}
61
62
63
64
65
     // ====== Factory function =======
66
67
         function User1(Name, Age){
68
           this.name = Name;
69
           this.age = Age;
70
         };
71
72
         function newUser1(Name, Age){
           let person = {
73
74
              name: Name,
75
              age: Age,
76
           }
77
78
           return person;
79
         }
80
81
         let Me1 = new User1("Mehedi", 30);
         let You1 = newUser1("Hasan", 20);
82
         console.log(Me1); // User1 {name: "Mehedi", age: 30}
83
84
         console.log(You1); // {name: "Hasan", age: 20}
85
86
     // ====== Prototype of Constructor =======
87
88
         function Parent(Name, Age){
89
             this.name = Name;
90
             this.age = Age;
91
92
               // we can create fuction it will copy for all object
93
               this.Ouput = fuction(){
                 console.log("My name" + this.name + " Age"+ this.age);
94
95
             */
96
97
         // but copy all the object is wasted the memory we can use prototype to ascess the date object
98
99
         Parent.prototype.print = function(){
100
          console.log("My name " + this.name + " Age "+ this.age);
101
         }
         let Me2 = new Parent("Mehedi", 20);
102
         let You2 = new Parent("Hasan", 30);
103
104
         Me2.print(); // My name Mehedi Age 20
```