

## 25<sup>th</sup> Day

### Class

### Code1

```
class msd;
```

```
    int a,b,c;
```

```
    function void display();
```

```
        a=10; b=20;
```

```
        c=a+b;
```

```
        $display("\n value of c is %0d \n",c);
```

```
    endfunction
```

```
endclass
```

```
module top;
```

```
    initial
```

```
        begin
```

```
            msd m=new();
```

```
            m.display();
```

```
        end
```

```
endmodule
```

# Simulation

Compiler version U-2023.03-SP2\_Full64; Runtime version U-2023.03-SP2\_Full64; Apr 12 11:43 2025

value of c is 30

## V C S   S i m u l a t i o n   R e p o r t

Time: 0 ns

CPU Time:      0.520 seconds;      Data structure size:    0.0Mb

File: Apr 12 11:43:38 2025

## Code2

```
class msd;
```

```
int a;
```

```
int b;
```

```
int c;
```

```
function void sum();
```

```
  a=10; b=20;
```

```
  c=a+b;
```

```
endfunction
```

```
function void display();
```

```
  $display("\na=%0d b=%0d c=%0d\n",a,b,c);
```

```
endfunction
```

```
endclass
```

```
module top;

  initial
  begin
    msd m=new();
    m.sum();
    m.display();
  end
endmodule
```

## Simulation

a=10 b=20 c=30

### V C S   S i m u l a t i o n   R e p o r t

Time: 0 ns

CPU Time:        0.510 seconds;        Data structure size:    0.0Mb

Sat Apr 12 11:51:55 2025

Done

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## Code3

```
class msd;

  int a;
  int b;
  int c;

  function int sum();
    a=10; b=20;
    return a+b;
```

```
endfunction
```

```
function void display();
```

```
    $display("\na=%0d,b=%0d,c=%0d\n",a,b,c);
```

```
endfunction
```

```
endclass
```

```
module top;
```

```
    initial
```

```
        begin
```

```
            msd m=new();
```

```
            m.c=m.sum();
```

```
            m.display();
```

```
        end
```

```
endmodule
```

## Simulation

Compiler version U-2023.03-SP2\_Full64; Runtime version U-2023.03-SP2\_Full64; Apr

a=10,b=20,c=30

### V C S   S i m u l a t i o n   R e p o r t

Time: 0 ns

CPU Time:        0.490 seconds;        Data structure size:    0.0Mb

Sat Apr 12 11:59:11 2025

## Code4

```
class msd;
```

```
    int a;
```

```
    int b;
```

```
    int c;
```

```
    function int sum();
```

```
        a=10; b=20;
```

```
        return a+b;
```

```
    endfunction
```

```
endclass
```

```
module top;
```

```
    initial
```

```
        begin
```

```
            msd m=new();
```

```
            m.c=m.sum();
```

```
            $display("\na=%0d b=%0d c=%0d\n",m.a,m.b,m.c);
```

```
        end
```

```
endmodule
```

# Simulation

Compiler version U-2023.03-SP2\_Full64; Runtime version U-2023.03-SP2\_Full64; Apr 12 12:04 2025

a=10 b=20 c=30

## V C S   S i m u l a t i o n   R e p o r t

Time: 0 ns

CPU Time:      0.480 seconds;      Data structure size:    0.0Mb

Sat Apr 12 12:04:52 2025

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