

## 45<sup>th</sup> day

### Pass by value and reference

#### Design

```
module pbv_ref;
```

```
    int a=10;
```

```
    function void pass_by_value(int a);
```

```
        a=a*6;
```

```
        $display("\ninside pass by value a=%0d\n",a);
```

```
    endfunction
```

```
    function void pass_by_ref(ref int a);
```

```
        a=a*6;
```

```
        $display("inside pass by reference a=%0d\n",a);
```

```
    endfunction
```

```
initial
```

```
begin
```

```
    pass_by_value(a);
```

```
        $display("after calling pass by value a=%0d\n",a);
```

```
    pass_by_ref(a);
```

```
        $display("after calling pass by reference a=%0d\n",a);
```

```
end
```

```
endmodule
```

## simulation

inside pass by value a=60

after calling pass by value a=10

inside pass by reference a=60

after calling pass by reference a=60

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

Time: 0 ns

CPU Time:        0.410 seconds;        Data structure size:    0.0Mb

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