

## Assignment-2

```
#include <xc.h>
int arr[]={1,2,3,4,5,6,7,8,9};
int i,sum;
void main(void) {
    sum=0;
    for(int i=0;i<=8;i++)
    {
        sum+=arr[i];
    }
    TRISD=0;
    PORTD=sum;
}
```

The screenshot displays the MPLAB IDE interface with the following components:

- Source Window:** Shows the C code for `array_addition.c`. The code calculates the sum of an array and sets `PORTD` to the result.
- SFRs Window:** Lists Special Function Registers. `PORTD` (F84) is highlighted with a red background, showing a value of `0x2D` (45) in decimal and `00101101` in binary.
- File Registers Window:** Shows a memory map from address 000 to 140, with all values set to 00.
- Watches Window:** Monitors the variable `sum`, showing its value as 45 at memory address 0x13.

The status bar at the bottom indicates the debugger is halted.