ASSIGNMENT 4

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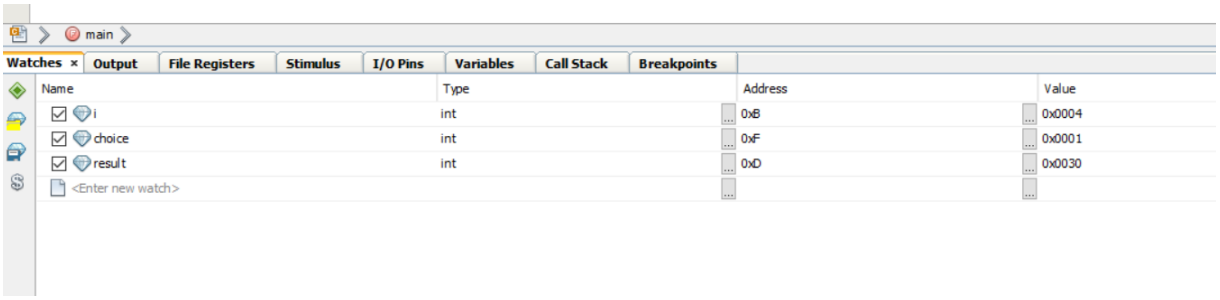
Roll no: 23151

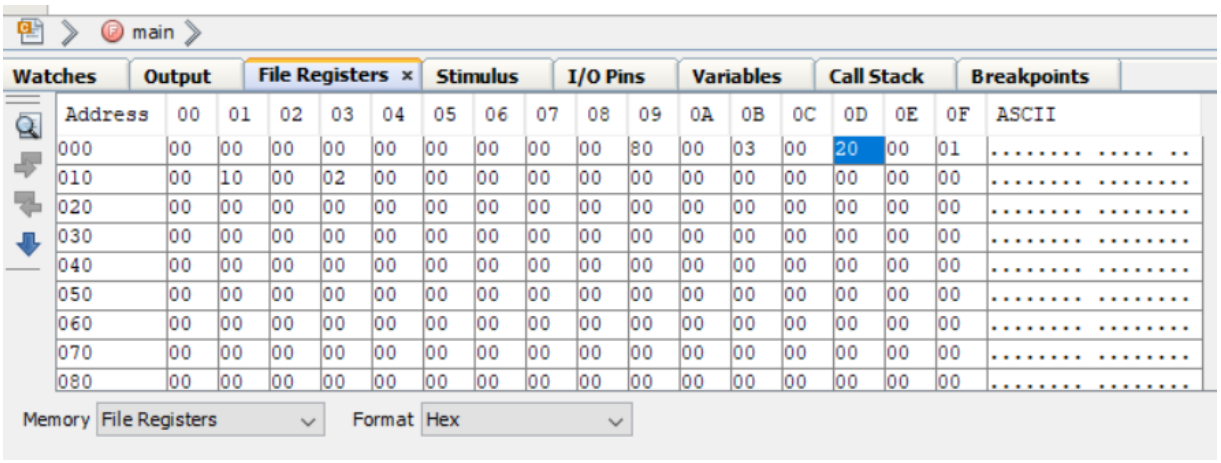
```
/*
 * File:   multiply.c
 * Author: shubham
 *
 */
/
Write an Embedded C menu driven program for :
i) Multiply 8 bit number by 8 bit number
ii) Divide 8 bit number by 8 bit number*/

#include <xc.h>
#include<pic18f4550.h>
void main(void) {
   int num1,num2;
   int result,i;
   int choice;

   TRISB =1;//config port b for taking input
   PORTB=choice;
   result=0;
```

```
    num1=0x10;
    num2=0x2;
    switch(choice){
       case 1:
          for(i=1;i<=num2;i++){
             result+=num1;
          }
          //return result;
          break;

       case 2:
          result=num1/num2;

          //return result;
          break;
    }
    TRISB =0;//config port for giving output
    PORTB=result;
}
```

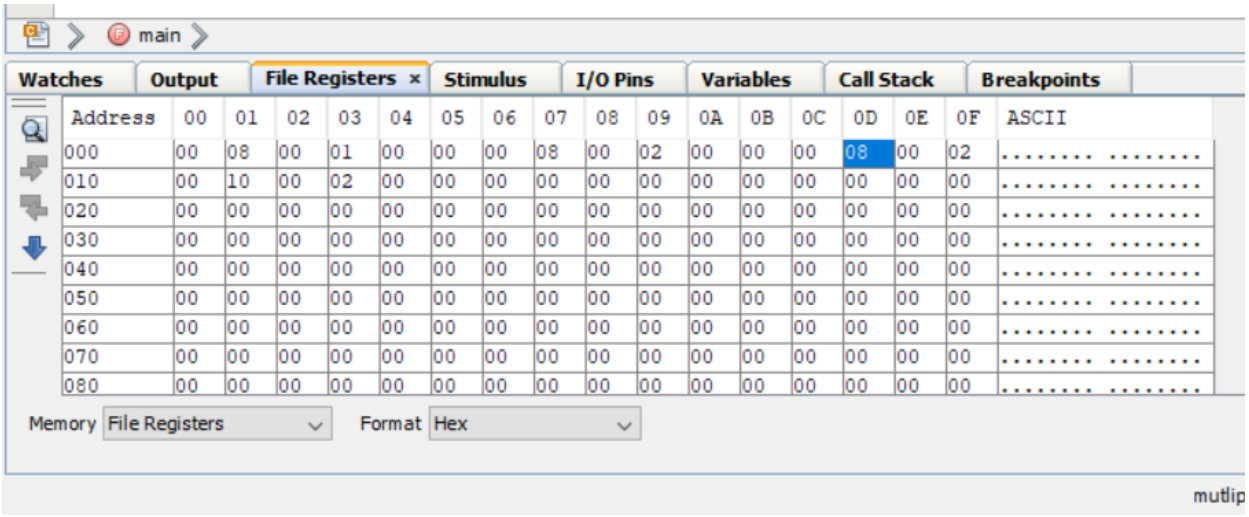
OUTPUT



Multiplication



Division


main
Watches
Output
File Registers
Stimulus
I/O Pins
Variables
Call Stack
Breakpoints
Address 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F ASCII
000 00 08 00 01 00 00 00 08 00 02 00 00 00 08 00 02 ....
010 00 10 00 02 00 00 00 00 00 00 00 00 00 00 00 00 ....
020 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
040 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
050 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
060 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
070 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
080 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
Memory File Registers
Format Hex
mutlip