SINGLE PRECISION FORMAT

```
#include <stdio.h>
void printBinary(int n, int i)
{
int k;
for (k = i - 1; k \ge 0; k--) {
 if ((n >> k) & 1)
 printf("1");
 else
 printf("0");
typedef union {
float f;
struct
 unsigned int mantissa: 23;
 unsigned int exponent: 8;
 unsigned int sign: 1;
 } raw;
} myfloat;
void printIEEE(myfloat var)
printf("%d | ", var.raw.sign);
printBinary(var.raw.exponent, 8);
printf(" | ");
printBinary(var.raw.mantissa, 23);
printf("\n");
int main()
myfloat var;
```

```
var.f = 1259.125;
printf("IEEE 754 representation of %f is : \n",
  var.f);
printIEEE(var);
return 0;
}
```

Output