# Experiment No 3

## Title :- Interfacing of DAC 0808 with 8051 for wave generation

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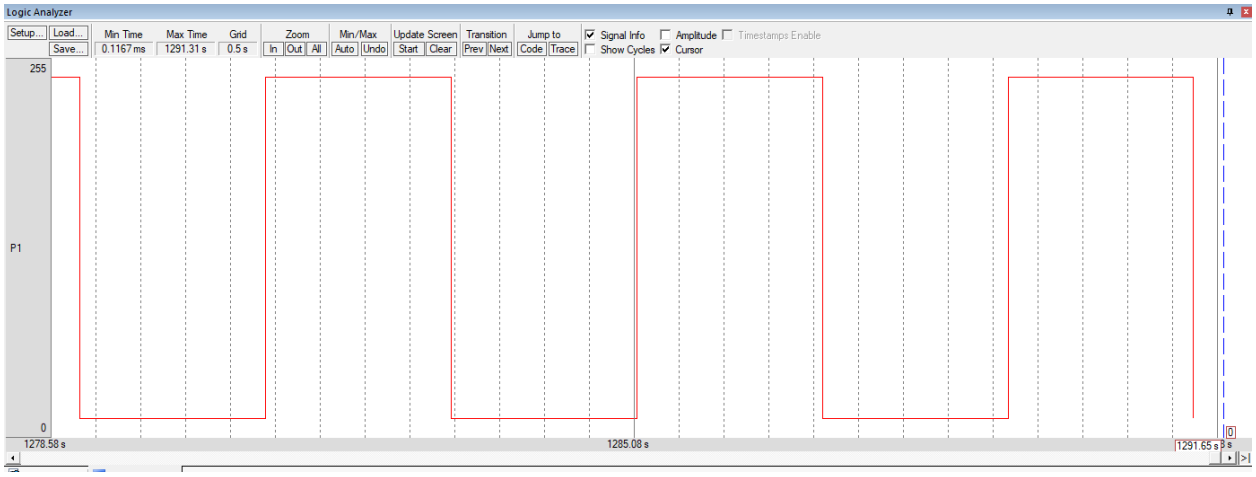
1st Part :- Square Wave Generation

Code :-

```
#include<reg51.h>
void MSDelay(unsigned int);
void main()
{
	while(1)
	{
		P1 = 0X00;
		MSDelay(1000);
		P1 = 0XFF;
		MSDelay(1000);
	}
}
```

```
void MSDelay(unsigned int itime)
{
        unsigned int i , j;
        for(i = 0; i < itime ; i++)
        {
                for(j = 0; j < 1275 ; j++)
                {
                }
        }
}
```

## Output :-



# 2nd Part :- Triangular Wave Generation

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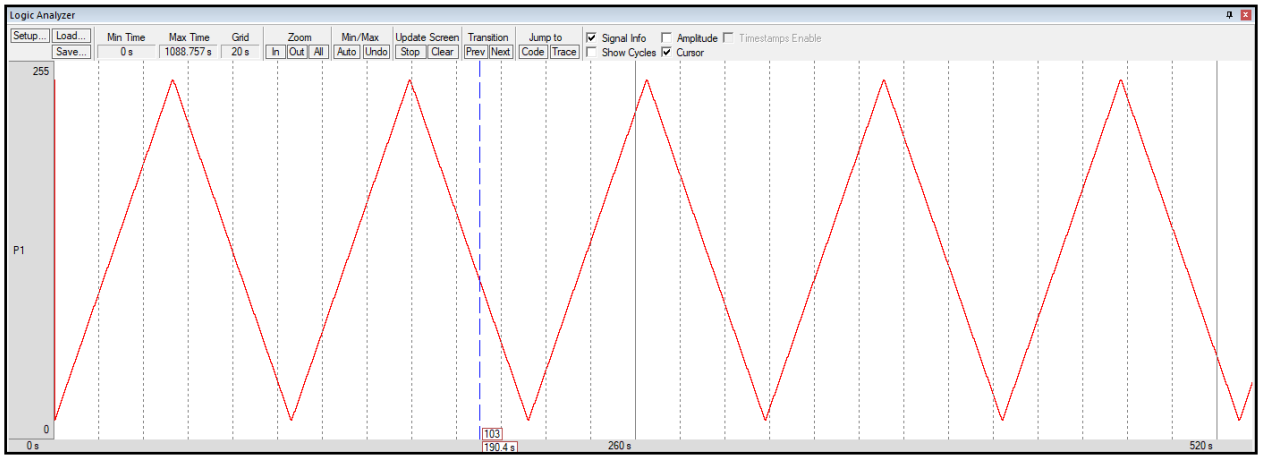
## Code :-

```
#include<reg51.h>
void main(){
        while(1){
        int i;
        for(i=0;i<=255;i++){
                P1=i;
                }
                for(i=255;i>=0;i--){
                P1=i;
                }
        }
}
```

## Output :-



# 3rd Part :- Sine Wave Generation

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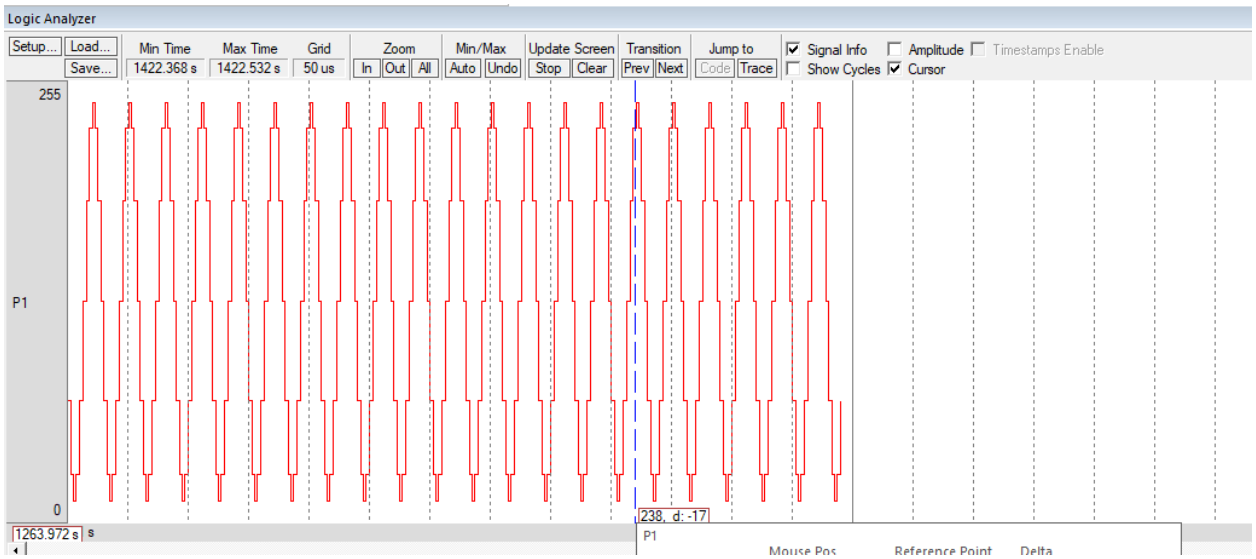
Code :-

```
#include<reg51.h>

void main(){

unsigned char sine_val[12]={128,192,238,255,238,192,128,64,17,0,17,64};

                        unsigned char x;

                        while(1)

                        {

                                for(x=0;x<12;x++)

                                {

                                P1=sine_val[x];

                                }

                        }

}
```

## Output :-