Tasks:

```
void half_speed(){
printf("Half speed\n");
void full_speed(){
      printf("Full speed\n");
void stop(){
printf("Stop\n");
  void main()
      char input;
      int count = 0;
      while(1){
           scanf(" %c",&input);
if(input == 'c'){
                switch(count){
                     case 1:
                         half_speed();
                         break;
                         stop();
                         break;
                         full_speed();
                         break;
                        stop();
count=0;
                         break;
           else{
                printf("ERROR TRY AGAIN\n");
```

```
의 lab_/.c 의 lab_9.c 의 task_3.c 의 lab_II.c 의 main.c 의 lab_IU.c 의
 #include <stdlib.h>
 #include <stdint.h>
 #include <string.h>
int *func(int*arr,int size){
     int i .count_ones=0 .count_negative=0;
     static int result[2];
     for(i=0 ; i < size ; i++){</pre>
          if(arr[i] == 1){
              count ones++;
          if(arr[i] < 0){
              count negative++;
     result[0]=count_ones;
     result[1]=count negative;
     return result:
 void main(){
     int arr[10]={1,-5,-6,1,0,8,0,1,-8,-4};
     int *res;
     res = func(arr,10);
     printf("Number of ones = %d\n",*(res+0));
     printf("Number of negative = %d",*(res+1));
```

```
Number of ones = Snumber of Regative = 4
PS C:\Users\hassa\OneDrive\000 000000> gcc .\main.c
PS C:\Users\hassa\OneDrive\000 000000> .\a.exe
Number of ones = 3
Number of negative = 4
PS C:\Users\hassa\OneDrive\000 000000> _
```

<u>Labs</u>

```
#include <stdio.h>
#include <stdib.h>
#include <stdib.h>
#include <stdint.h>
#include <stdint.h
#include <stdint
```

PS H:\NTI\C_language\labs> gcc . PS H:\NTI\C_language\labs> .\a.e Max = 30 Mini = -5

```
float add (float num_1 , float num_2){}
      return (num_1+num_2);
float multi (float num_1 , float num_2){
    return (num_1*num_2);
 float sub (float num_1 , float num_2){
      return (num_1-num_2);
 float divid (float num_1 , float num_2){
    return (num_1/num_2);
void main(){
    printf("Enter first number : ");
      float num_1;
      scanf("%f",&num_1);
printf("Enter operation : ");
      char op;
      scanf(" %c",&op);
printf("Enter second number : ");
      float num_2;
      scanf("%f",&num_2);
float (*ptr[4])(float , float)={add,multi,sub,divid};
      float result = 0;
           case '+':
                result = ptr[0](num_1,num_2);
printf("%.2f + %.2f = %.2f",num_1,num_2,result);
                break;
                result = ptr[1](num_1,num_2);
printf("%.2f * %.2f = %.2f",num_1,num_2,result);
                result = ptr[2](num_1,num_2);
                printf("%.2f - %.2f = %.2f",num_1,num_2,result);
                result = ptr[3](num_1,num_2);
printf("%.2f / %.2f = %.2f",num_1,num_2,result);
                 break;
```

```
PS H:\NTI\C_language\labs>
PS H:\NTI\C_language\labs> .\a.exe
Enter first number : 5
Enter operation : -
Enter second number : 1
5.00 - 1.00 = 4.00
PS H:\NTI\C_language\labs> .\a.exe
Enter first number : 5
Enter operation : +
Enter second number : 3
5.00 + 3.00 = 8.00
PS H:\NTI\C_language\labs> .\a.exe
Enter first number : 6
Enter operation : *
Enter second number : 3
6.00 * 3.00 = 18.00
PS H:\NTI\C_language\labs>
PS H:\NTI\C_language\labs> .\a.exe
Enter first number : 6
Enter operation : /
Enter second number : 3
6.00 / 3.00 = 2.00
PS H:\NTI\C_language\labs> _
```

```
void op ( int (*ptr)[3] , int row , int col ){
      int i , j,max=ptr[0][0],mini=ptr[0][0];
      float avg=0;
      for (i=0 ; i < row ; i++){</pre>
          for(j=0 ; j < col ; j++){</pre>
               printf("%d\t", ptr[i][j]);
               if(ptr[i][j]>max){
                   max = ptr[i][j];
               if(ptr[i][j]<mini){</pre>
                   mini = ptr[i][j];
               avg = avg + ptr[i][j];
          printf("\n");
      printf("max number is %d\n", max);
      printf("mini number is %d\n", mini);
printf("avarage number is %.2f\n", avg / 6);
⊏void main(){
      int arra[2][3] = {{1,2,3},{4,5,6}};
      op(arra , 2 ,3);
```

```
int size_of_array(char *arr){
    int i ;
    for(i=0 ; i < 100 ; i++){
        if(arr[i] == '\0'){
            break;
        }
    }
    return i;
}

void main(){
    printf("Enter string : ");
    char arr[100];
    scanf("%s",arr);
    printf("size of string is : %d " , size_of_array(arr));</pre>
```

```
Enter string : hassan
size of string is : 6
```

```
void main(){
    short num = 0x1234;
    void *p;
    p=#
    if (*(char*)p == 0x12){
        printf("big endian");
    }
    else{
        printf("little endian ");
    }
    //12 big endian ---- 34 little endian
}
```

```
PS H:\NTI\C_language\labs> gcc .\lab_11.c

PS H:\NTI\C_language\labs> .\a.exe

little endian

lePS H:\NTI\C_language\labs> gcc .\lab_10.c
```