1. WAP To Print all the divisors of given no

Input: 30

Output: 1 2 3 5 6 10 15 30

```
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ vim Program1.c dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ cc Program1.c dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ ./a.out Enter the Number :30
Divisors of 30 is
1 2 3 5 6 10 15 30 dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season/Magic
```

2. WAP to count digits in given no

Input: 94211

Output: digit count is 5

```
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ vim Program2.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ cc Program2.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ ./a.out
Enter the Number ::93211
Digit Count is 5
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$
```

3. WAP to print all the composite numbers between a given range

Input: Enter Start 1

Enter End 15

Output:

4 6 8 9 10 12 14 15

```
3. WAP to print all the composite numbers between a given range
Input : Enter Start 1
Enter End 15
Output:
Input : Enter Start 31
Enter End 35
Output:
32 33 34 35
#include<stdio.h>
void main(){
        int start,end,count;
        printf("Enter the start Number ::");
        scanf("%d", &start);
        printf("Enter the end Number ::");
        scanf("%d", &end);
        for(int i = start;i <= end;i++){</pre>
                count = 0;
                 for(int j = start; j <= i; j++){</pre>
                         if(i % j == 0){
                                 count++;
                 if(count > 2){
                         printf("%d \n",i);
        }
```

```
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ vim Program3.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ cc Program3.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ ./a.out
Enter the start Number ::1
Enter the end Number ::15
4
6
8
9
10
12
14
15
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$
```

```
* - - -
- * - -
- - * -
```

```
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ vim Program4.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ cc Program3.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ cc Program4.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ ./a.out
Enter the Row ::4
* - - -
- * -
- * -
- - * -
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$
```

```
DeFg
eDcB
FgHi
gFeD
```

```
6. take no of rows from the user
        DeFg
        e D c B
        FgHi
        g F e D
#include<stdio.h>
void main(){
        int row;
        printf("Enter number of row ::");
        scanf("%d",&row);
        char ch1 = 64 + row;
        char ch2 = 96 + row;
        for(int i = 1;i <= row;i++){</pre>
                for(int j = 1; j <= row; j++){</pre>
                         if(i % 2 ==1){
                                 if(j % 2 == 0){
                                         printf("%c ",ch2);
                                         ch2++;
                                         ch1++;
                                 }else{
                                         printf("%c ",ch1);
                                         ch2++;
                                         ch1++;
                         }else{
                                 if(j \% 2 == 1){
                                         printf("%c ",ch2);
                                         ch2--;
                                         ch1--;;
                                 }else{
                                         printf("%c ",ch1);
                                         ch2--;
                                         ch1--;
                                 }
                         }
                ch1 = 64 + row + i;
                ch2 = 96 + row + i;
                printf("\n");
        }
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ cc Program6.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ ./a.out
Enter number of row ::4
DeFg
e D c B
 gHi
g F e D
```

7. take no of rows from the user E D C B A E D C B E D C E D C E D F

```
7. take no of rows from the user
        EDCBA
        EDCB
        EDC
        E D
#include<stdio.h>
void main(){
        int row;
        printf("Enter the row ::");
        scanf("%d",&row);
        for(int i = 1;i <= row;i++){</pre>
                char ch = 'E';
                for(int j = row; j >= i; j--){
                        printf("%c ",ch);
                        ch--;
                printf("\n");
        }
```

```
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ cc Program7.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ ./a.out
Enter the row ::5
E D C B A
E D C B
E D C
E D
E
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$
```

```
/*
    8. take no of rows from the user
0
1 1
2 3 5
8 13 21 34
    */

#include<stdio.h>

void main(){
    int row, x = 0, y = 1;
    printf("Enter the row ::");
    scanf("%d",&row);

    for(int i = 1; i <= row;i++){
        for(int j = 1; j <= i; j++){
            printf("%d ",x);
            y = x + y;
            x = y - x;
        }
        printf("\n");
    }
}</pre>
```

```
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ vim Program8.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ cc Program8.c
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$ ./a.out
Enter the row ::4
0
1 1
2 3 5
8 13 21 34
dhiraj@dhiraj-HP:~/Cprogramming/Assignment/Magic Season/Magic Season1$
```

```
1
12
123
1234
```

```
DDDD
CCC
BB
A
```

```
10. take no of rows from the user
        DDDD
           CCC
             BB
#include<stdio.h>
void main(){
        char ch = 'D';
        int row;
        printf("Enter the value of row:");
        scanf("%d",&row);
        for(int i = 1;i <= row; i++){</pre>
                  for(int sp = 1;sp < i ;sp++){
    printf(" ");</pre>
                  for(int j = row; j >= i; j--){
                          printf("%c ",ch);
                  ch--;
                  printf("\n");
        }
```