Computer Programming Lab – 4

1. Write a C program to print day of week name using switch case.
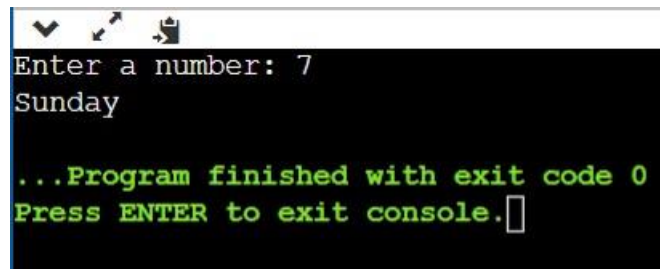
```c
#include <stdio.h>

int main()
{
    int num;
    do
    {
    printf("Enter a number: ");
    scanf("%d", &num);
    switch(num)
    {
    case 1:
        printf("Monday");
        break;
    case 2:
        printf("Tuesday");
        break;
    case 3:
        printf("Wednesday");
        break;
    case 4:
        printf("Thursday");
        break;
    case 5:
        printf("Friday");
        break;
    case 6:
        printf("Saturday");
        break;
    case 7:
        printf("Sunday");
        break;
    default:
```

```c
        printf("Enter a number 1-7 \n");
    }
    }
    while(num>7);
    return 0;
}
```


2. Write a C program print total number of days in a month using switch case.

```c
#include <stdio.h>

int main()
{
    int num;
    do
    {
    printf("Enter a number: ");
    scanf("%d", &num);
    switch(num)
    {
    case 1:
        printf("January has 31 days");
        break;
    case 2:
        printf("Feburary has 28/29 days");
        break;
    case 3:
        printf("March has 31 days");
```
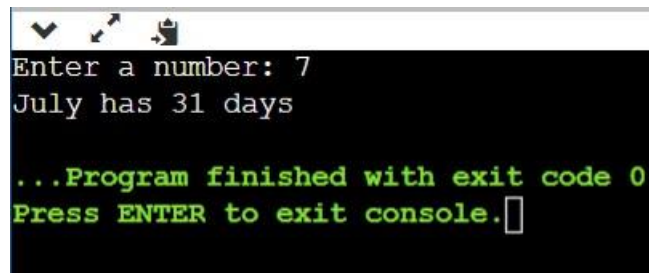
```c
            break;
        case 4:
            printf("April has 30 days");
            break;
        case 5:
            printf("May has 31 days");
            break;
        case 6:
            printf("June has 30 days");
            break;
        case 7:
            printf("July has 31 days");
            break;
        case 8:
            printf("August has 31 days");
            break;
        case 9:
            printf("September has 30 days");
            break;
        case 10:
            printf("October has 31 days");
            break;
        case 11:
            printf("November has 30 days");
            break;
        case 12:
            printf("December has 31 days");
            break;
        default:
            printf("Enter a number 1-12 \n");
        }
    }
    while(num>12);
    return 0;
}
```

```
Enter a number: 7
July has 31 days

...Program finished with exit code 0
Press ENTER to exit console.
```

3. Write a program using switch case where user will enter 3 values (2 operands and 1 operator) and program will print the output after processing the operands using given operator. (Calculator)

```c
#include <stdio.h>

int main()
{
    int num1, num2;
    char chr;
    printf("Enter a operator (+,-,*,/): ");
    scanf("%c", &chr);
    printf("Enter a number: ");
    scanf("%d", &num1);
    printf("Enter a number: ");
    scanf("%d", &num2);

    switch(chr)
    {
    case '+':
        printf("%d %c %d = %d", num1, chr, num2, num1+num2);
        break;
    case '-':
        printf("%d %c %d = %d", num1, chr, num2, num1-num2);
        break;
    case '*':
        printf("%d %c %d = %d", num1, chr, num2, num1*num2);
        break;
    case '/':
        printf("%d %c %d = %d", num1, chr, num2, num1/num2);
```

```
            break;
        default:
            printf("Enter a valid operator\n");
        }
        return 0;
    }
```

```
Enter a operator (+,-,*,/): +
Enter a number: 5
Enter a number: 6
5 + 6 = 11

...Program finished with exit code 0
Press ENTER to exit console.
```

4. Write a program to enter the ship name based on the character entered. If it is B or b Battleship If it is C or c Cruiser If it is D or d Destroyer If it is F or f Frigate If it is not any of the letter print unknown ship

```c
#include <stdio.h>

int main()
{
    char chr;
    printf("Enter a alphabet: ");
    scanf("%c", &chr);

    switch(chr)
    {
    case 'B':
    case 'b':
        printf("The name of the ship is Battleship");
        break;
    case 'C':
    case 'c':
        printf("The name of the ship is Cruiser");
```
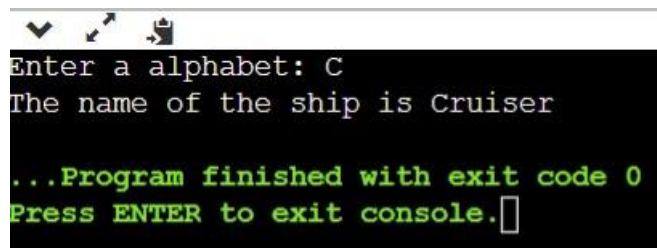
```c
            break;
    case 'D':
    case 'd':
            printf("The name of the ship is Destroyer ");
            break;
    case 'F':
    case 'f':
            printf("The name of the ship is Battleship");
            break;
    default:
            printf("The name of the ship is unknown");
    }
    return 0;
}
```

```
Enter a alphabet: C
The name of the ship is Cruiser

...Program finished with exit code 0
Press ENTER to exit console.
```

5. Write a C program to display user details using their id. Details: Name, Id, Contact Number, Address. Id range: (Roll no – 2) to (Roll number+2)

```c
#include <stdio.h>

int main()
{
   int num;
   do
   {
   printf("Enter the roll number: ");
   scanf("%d", &num);
   switch(num)
```
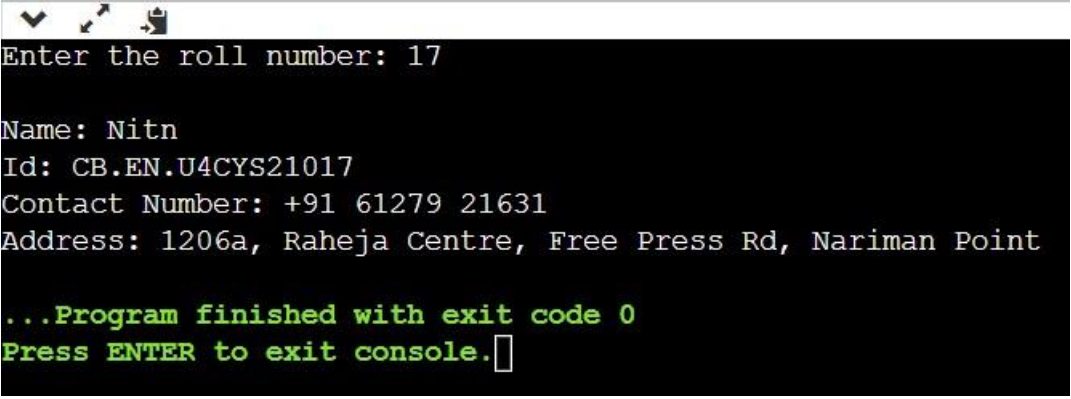
```c
    {
    case 15:
        printf("\nName: Ananya");
        printf("\nId: CB.EN.U4CYS21015");
        printf("\nContact Number: +91 89177 39370");
        printf("\nAddress: Shastri Hall, Nana Chowk, Grant Road");
        break;
    case 16:
        printf("\nName: Devesh");
        printf("\nId: CB.EN.U4CYS21016");
        printf("\nContact Number: +91 61279 19379");
        printf("\nAddress: 1005-b, Panchhatna, M P Road, Opera
House");
        break;
    case 17:
        printf("\nName: Nitn");
        printf("\nId: CB.EN.U4CYS21017");
        printf("\nContact Number: +91 61279 21631");
        printf("\nAddress: 1206a, Raheja Centre, Free Press Rd,
Nariman Point");
        break;
    case 18:
        printf("\nName: Shrishti");
        printf("\nId: CB.EN.U4CYS21018");
        printf("\nContact Number: +91 88477 74660");
        printf("\nAddress:  54, Mount Poonamallee Road, St Thomas
Mount");
        break;
    case 19:
        printf("\nName: Skyler");
        printf("\nId: CB.EN.U4CYS21019");
        printf("\nContact Number: +91 61279 44062");
        printf("\nAddress: 11/2, New Railway Road Cho");
        break;
    default:
        printf("Enter a number 15-19 \n");
    }
```

```
    }
    while(num>19 || num<15);
    return 0;
}
```

```
Enter the roll number: 17

Name: Nitn
Id: CB.EN.U4CYS21017
Contact Number: +91 61279 21631
Address: 1206a, Raheja Centre, Free Press Rd, Nariman Point

...Program finished with exit code 0
Press ENTER to exit console.
```