

Assignment 1

Q1. Write a menu driven program for Date in a C. Declare a structure Date having data members day, month, year. Implement the following functions. void initDate(struct Date* ptrDate); void printDateOnConsole(struct Date* ptrDate); void acceptDateFromConsole(struct Date* ptrDate);

```
#include <stdio.h>

struct Date
{
    /* data */
    int day;
    int month;
    int year;
};

void initData(struct Date *ptr){
    ptr->day = 10;
    ptr->month = 9;
    ptr->year = 2024;
}

void printData(struct Date *ptr){
    printf("Date is : %d - %d - %d \n",ptr->day,ptr->month,ptr->year);
}

void acceptDataFromConsole(struct Date *ptr){
    printf("Enter the date ");
    scanf("%d %d %d",&ptr->day,&ptr->month,&ptr->year);
}

int num(){
    int n;
    printf("For Exit Enter 0 \n");
    printf("For Accept Date enter 1 \n");
    printf("For Printing Date Enter 2 \n");
```

```
scanf("%d",&n);  
return n;  
}
```

```
int main(){  
    struct Date d1;  
    struct Date d2;  
    int nu;  
    while((nu=num()) != 0){  
        switch (nu)  
        {  
            case 0:  
                break;  
            case 1:  
                acceptDataFromConsole(&d1);  
                break;  
            case 2:  
                printData(&d1);  
                break;  
            default:  
                printf("Wrong input");  
                break;  
        }  
    }  
    return 0;  
}
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\CPP> gcc .\menu_driven.c
PS D:\CPP> .\a.exe
For Exit Enter 0
For Accept Date enter 1
For Printing Date Enter 2
1
Enter the date 10 2 2002
For Exit Enter 0
For Accept Date enter 1
For Printing Date Enter 2
2
Date is : 10 - 2 - 2002
For Exit Enter 0
For Accept Date enter 1
For Printing Date Enter 2
1
Enter the date 2 10 1990
For Exit Enter 0
For Accept Date enter 1
For Printing Date Enter 2
2
Date is : 2 - 10 - 1990
For Exit Enter 0
For Accept Date enter 1
For Printing Date Enter 2
■
```