Sub: ESFP – I
Course Code: 2CSE102
Practical – 8

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Q.1.Problem Definition:

Design project template with detailed information using switch case conditions of the following given topic:

College Information System

Expected output :
Press<1> for enquiry in college
Press<1> for eligibility criteria for B-tech course
Press<a> for regular student
Press<b> for diploma to degree student.
Press<1> for 1st year enquiry
Press<2> for 2nd year enquiry
Press<3> for 3rd year enquiry
Press<4> for 4th year enquiry
Press<2> for fee details of all year
Press<a> for fee details of first year
Press<b> for fee details of second year
Press<c> for fee details of third year
Press<d> for fee details of fourth year

Press<2> for admission process in college.
Press<a> for first year admission
Press<b> for second year admission
Press<c> for third year admission
Press<d> for fourth year admission
Press<4> for all semester subject
Press<a> for 1st

semester

Press<b> for 2

nd semester

Press<c> for 3

rd semester

Press<d> for 4
th
semester
Press<0> for exit from the program.

Solution:

Code:-

```c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    char
name[20],father[20],address[30],enquiry[20],academic[20],percentage[10],course[20],branch[20],
academicyear[20];
    long int contact,coursfee;
    int enquiryy,x,y;
    int eligibility;
    int total;
```

```c
    char student_type;
    char fee;
    char admission;
    char subject;

    for(;;)
    {
        printf("\nPress 1 for enquiry in college\n");
        printf("Press 2 for fee details of all years\n");
        printf("Press 3 for admission process in college\n");
        printf("Press 4 for all semester subject\n");
        printf("Press 0 for exit from program\n");
        scanf("%d", &enquiryy);

        switch (enquiryy)
        {
            case 1:
                printf("Press 1 for eligibility criteria for B-tech course\n");
                scanf("%d", &eligibility);

                switch (eligibility)
                {
                    case 1:
                        printf("Press a for regular student\n");
                        printf("Press b for diploma to degree student\n");

                        scanf(" %c", &student_type);  // Use a space before %c to skip leading
whitespace

                        switch (student_type)
                        {
                            case 'a':

                                printf("REGULAR STUDENT\n");
                                printf("\n\nRegular students have to take admission in first
year only.\n");
                                printf("Eligibility criteria for regular student is 10+2 with
Math subject, and average marks should be 70%%.\n");
                                printf("\nEnter your marks here:");

                                scanf("%d",&total);

                                int per=total*100/500;

                                printf("\n%f",per);

                                if(per>70)
                                {
                                    printf("Press 1 for 1st year enquiry\n");
                                    printf("Press 2 for 2nd year enquiry\n");
```

```c
                    printf("Press 3 for 3rd year enquiry\n");
                    printf("Press 4 for 4th year enquiry\n");
                    scanf("%d",&enquiryy);

                    switch (enquiryy)
                    {
                        case 1:
                            printf("1st year enquiry\n");
                        break;

                        case 2:
                            printf("2nd year enquiry\n");
                        break;

                        case 3:
                            printf("3rd year enquiry\n");
                        break;

                        case 4:
                            printf("4th year enquiry\n");
                        break;

                        default:
                            printf("Invalid eligibility option\n");

                    }
                }
                else
                {
                    printf("\nyou are not eligible for admission.\n");
                }

            break;

            case 'b':
                printf("DIPLOMA TO DEGREE STUDENT\n");

                 printf("Diploma to degree student can take admission in 2nd
year directly. No need to take admission in first year.\n");
                        printf("Eligibility criteria for diploma to degree
students is 10+2+1 with IT, and average marks should be 80%%.\n");
                        printf("Enter your marks here(out of 500):");

                scanf("%d",&x);

                per=x*100/500;

                printf("%.2f",per);

                if(per<80)
                {
```

```c
                                        printf("\nyou are not eligible for admission\n");
                    }
                    else
                    {
                        printf("\nPress<2> for 2nd year enquiry");
                        printf("\nPress<3> for 3rd year enquiry");
                        printf("\nPress<4> for 4th year enquiry\n");

                        scanf("%d",&y);

                    }
                switch (eligibility)
                {

                    case 1:
                        printf("2nd year enquiry\n");
                    break;

                    case 2:
                        printf("3rd year enquiry\n");
                    break;

                    case 3:
                        printf("4th year enquiry\n");
                    break;

                    default:
                        printf("Invalid eligibility option\n");
                }

            break;

            printf("\nEnquiry Form\n");
            printf("\nstudent name:");
            scanf("%s",name);
            printf("\nfather name:");
            scanf("%s",father);
            printf("\nAddress:");
            scanf("%s",address);
            printf("\nEnquiry for:");
            scanf("%s",enquiry);
            printf("\nacademic:");
            scanf("%s",academic);
            printf("\npercentage:");
            scanf("%s",percentage);

//printf("\n%c\n%c\n%c\n%c\n%c\n%c",name,father,address,enquiry,academic,percentage);//

            }

        break;
```

```c
            default:
                printf("Plz enter valied number");
        }

break;

case 2:
    printf("Press a for fee details of first year\n");
    printf("Press b for fee details of second year\n");
    printf("Press c for fee details of third year\n");
    printf("Press d for fee details of fourth year\n");
    scanf(" %c", &fee);  // Use a space before %c to skip leading whitespace

    switch (fee)
    {
        case 'a':
            printf("\n1st year fee portal is 2,00,000 yen\n");
        break;

        case 'b':
            printf("\n2nd year fee portal is 2,20,000 yen\n");
        break;

        case 'c':
            printf("\n3rd year fee portal is 2,60,000 yen\n");
        break;

        case 'd':
            printf("\n4th year fee portal is 2,70,000 yen\n");
        break;

        default:
            printf("\nInvalid fee option\n");
    }

break;

case 3:
    printf("Press a for first year admission\n");
    printf("Press b for second year admission\n");
    printf("Press c for third year admission\n");
    printf("Press d for fourth year admission\n");
    scanf(" %c", &admission);  // Use a space before %c to skip leading whitespace

    switch (admission)
    {
        case 'a':
            printf("\n1st year admission portal\n");
        break;
```

```c
        case 'b':
            printf("\n2nd year admission portal\n");
        break;

        case 'c':
            printf("\n3rd year admission portal\n");
        break;

        case 'd':
            printf("\n4th year admission portal\n");
        break;

        default:
            printf("\nInvalid admission option\n");
    }

    printf("\nstudent name:");
    scanf("%s",name);
    printf("\nfather name:");
    scanf("%s",father);
    printf("\naddress:");
    scanf("%s",address);
    printf("\ncontact number:");
    scanf("%ld",&contact);
    printf("\ncourse admission for:");
    scanf("%s",course);
    printf("\nspecialization branch:");
    scanf("%s",branch);
    printf("\nacadmic year:");
    scanf("%s",academicyear);
    printf("\nlast academic certificate:");
    scanf("%s",academic);
    printf("\ncourse fee:");
    scanf("%ld",&coursfee);

break;

case 4:
    printf("Press a for 1st semester subject\n");
    printf("Press b for 2nd semester subject\n");
    printf("Press c for 3rd semester subject\n");
    printf("Press d for 4th semester subject\n");
    scanf(" %c", &subject);  // Use a space before %c to skip leading whitespace

    switch (subject)
    {
        case 'a':
            printf("\n1st semester subject\n");
        break;

        case 'b':
```

```c
            printf("\n2nd semester subject\n");
        break;

        case 'c':
            printf("\n3rd semester subject\n");
        break;

        case 'd':
            printf("\n4th semester subject\n");
        break;

        default:
            printf("\nInvalid subject option\n");
    }

break;

case 0:
    printf("Exiting pro0gram...\n");
    exit(0);  // Terminate the program
break;

default:
    printf("\nInvalid option\n");
    }
    }

    return 0;
}
```
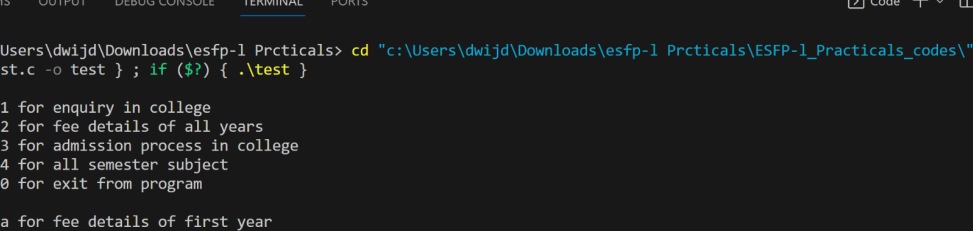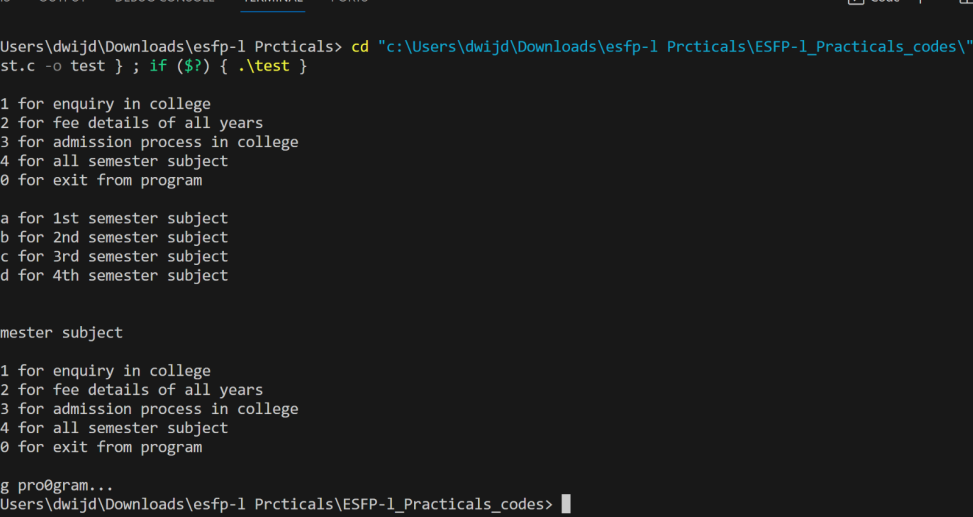
Output:-

```
PS C:\Users\dwijd\Downloads\esfp-l Prcticals> cd "c:\Users\dwijd\Downloads\esfp-l Prcticals\ESFP-l_Practicals_codes\" ; if ($?) {
gcc test.c -o test } ; if ($?) { .\test }

Press 1 for enquiry in college
Press 2 for fee details of all years
Press 3 for admission process in college
Press 4 for all semester subject
Press 0 for exit from program
2
Press a for fee details of first year
Press b for fee details of second year
Press c for fee details of third year
Press d for fee details of fourth year
a

1st year fee portal is 2,00,000 yen

Press 1 for enquiry in college
Press 2 for fee details of all years
Press 3 for admission process in college
Press 4 for all semester subject
Press 0 for exit from program
0
Exiting pro0gram...
PS C:\Users\dwijd\Downloads\esfp-l Prcticals\ESFP-l_Practicals_codes>
```

```
PS C:\Users\dwijd\Downloads\esfp-l Prcticals> cd "c:\Users\dwijd\Downloads\esfp-l Prcticals\ESFP-l_Practicals_codes\" ; if ($?) {
gcc test.c -o test } ; if ($?) { .\test }

Press 1 for enquiry in college
Press 2 for fee details of all years
Press 3 for admission process in college
Press 4 for all semester subject
Press 0 for exit from program
4
Press a for 1st semester subject
Press b for 2nd semester subject
Press c for 3rd semester subject
Press d for 4th semester subject
a

1st semester subject

Press 1 for enquiry in college
Press 2 for fee details of all years
Press 3 for admission process in college
Press 4 for all semester subject
Press 0 for exit from program
0
Exiting pro0gram...
PS C:\Users\dwijd\Downloads\esfp-l Prcticals\ESFP-l_Practicals_codes>
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\dwijd\Downloads\esfp-l Prcticals> cd "c:\Users\dwijd\Downloads\esfp-l Prcticals\ESFP-l_Practicals_codes\" ; if ($?) {
gcc test.c -o test } ; if ($?) { .\test }

Press 1 for enquiry in college
Press 2 for fee details of all years
Press 3 for admission process in college
Press 4 for all semester subject
Press 0 for exit from program
3
Press a for first year admission
Press b for second year admission
Press c for third year admission
Press d for fourth year admission
a

1st year admission portal

student name:0

father name:0

address:0

contact number:0

course admission for:0

specialization branch:0
```

```
acadmic year:0

last academic certificate:0

course fee:0

Press 1 for enquiry in college
Press 2 for fee details of all years
Press 3 for admission process in college
Press 4 for all semester subject
Press 0 for exit from program
```