ONLINE CERTIFICATE GENERATOR

A DATA STRUCTURES COURSE PROJECT

UNDER THE DEPARTMENT OF INFORMATION TECHNOLOGY

VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institute, NAAC Accredited with 'A++' Grade (CGPA: 3.73/4.0)
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Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad TS 500 090 India

2019

SUBMITTED BY:

18071A12G2 – P.Madhavi

18071A12G9 – Siddarth Saxena

18071A12H0 – S.Niharika

18071A12H7 – Y.Dedeepya

SOURCE CODE:

```
<//Online Certificate Generator
#include<stdio.h>
#include<ctype.h>
#include<dos.h>
#include<stdlib.h>
#define MAX 3
int queue[MAX];
int front=-1,rear=-1;
void push(int);
int pop();
int main()
{
FILE *f1,*f2,*f3;
int choice;
int x=0;
char name[30],num[20],course[30];
char g,c;
char ch='y';
printf("\t\t\t\t\t\tONLINE CERTIFICATE LIBRARY\n");
printf("============================================================
============================================================");
printf("\n Enter your Details:\n");
printf("NAME:");
fflush(stdin);
gets(name);
```

```
printf("\nGENDER:");
scanf("%c",&g);
do
{
printf("\nCOURSE COMPLETED: \n 1.NPTEL BASED\n 2.INTERNSHALA
BASED\n 3.VNR BASED\nEnter Your Option:");
scanf("%d",&choice);
switch(choice)
{
   case 1: printf("\n Enter the Name of the Course Completed:");
            fflush(stdin);
            gets(course);
            f1=fopen("NPTEL mock.txt","a");
            if(g=='M'||g=='m')
              {

fprintf(f1,"\n==========================================================
==========================================================
==\n\t\tNATIONAL PROGRAM ON TECHNOLOGY ENABLED
LEARNING\n\n\t\t\tCERTIFICATE OF COMPLETION\n\n\tAwarded to Mr.%s
for completing the course on %s\n\t\t\tduring the year 2019-
2020\n==========================================================
==========================================================",na
me,course);
               fprintf(f1,"\n\t\t This certificate is e - verifiable at
NPTEL.org\n\n\n");
              }
            else
             {
```

```
fprintf(f1,"\n==========================================================
==========================================================
==\n\t\tNATIONAL PROGRAM ON TECHNOLOGY ENABLED
LEARNING\n\n\t\t\tCERTIFICATE OF COMPLETION\n\n\tAwarded to Ms.%s
for completing the course on %s\n\t\t\tduring the year 2019-
2020\n==========================================================
==========================================================",na
me,course);

            fprintf(f1,"\n\t\t This certificate is e - verifiable at
NPTEL.org\n\n\n");

          }

        fclose(f1);

        printf("\n Your Certificate has been generated and downloaded,
please view it in the folder");

        printf("\n");

        if((rear==-1||queue[0]!=1)&&(queue[1]!=1&&queue[2]!=1))

        {

           push(1);

           x=x+1;

        }

        break;


  case 2: printf("\n Enter the Name of the Internship Completed:");

        fflush(stdin);

        gets(course);

        f2=fopen("INTERNSHIP.txt","a");

        if(g=='M'||g=='m')

          {
```

```
fprintf(f2,"\n==========================================================
==========================================================
==\n\t\t\t\tINTERNSHALA\n\n\t\t\tCERTIFICATE OF
COMPLETION\n\n\tAwarded to Mr.%s for completing the Internship on
%s\n\t\t\tduring the year 2019-
2020\n==========================================================
==========================================================",na
me,course);

            fprintf(f2,"\n\t\t This certificate is e - verifiable at
INTERNSHALA.org\n\n\n");

          }

        else

          {


fprintf(f2,"\n==========================================================
==========================================================
==\n\t\t\t\tINTERNSHALA\n\n\t\t\tCERTIFICATE OF
COMPLETION\n\n\tAwarded to Ms.%s for completing the Internship on
%s\n\t\t\tduring the year 2019-
2020\n==========================================================
==========================================================",na
me,course);

            fprintf(f2,"\n\t\t This certificate is e - verifiable at
INTERNSHALA.org\n\n\n");

          }

        fclose(f2);

        printf("\n Your Certificate has been generated and downloaded,
please view it in the folder");

        printf("\n");

         if((rear==-1||queue[0]!=2)&&(queue[1]!=2&&queue[2]!=2))

        {
```

```
            push(2);
            x=x+1;
          }
          break;

  case 3: printf("\nEnter the Name of the Workshop Completed:");
          fflush(stdin);
          gets(course);
          f3=fopen("VNR.txt","a");
          if(g=='M'||g=='m')
            {

fprintf(f3,"\n==========================================================
==========================================================
==\n\t\t\t\tVNR VJIET\n\n\t\t\tCERTIFICATE OF
COMPLETION\n\n\tAwarded to Mr.%s for completing the workshop on
%s\n\t\t\tduring the year 2019-
2020\n==========================================================
==========================================================",na
me,course);
             fprintf(f3,"\n\t This certificate is e - verifiable in your EduPrime
Database");
            }
          else
           {

fprintf(f3,"\n==========================================================
==========================================================
==\n\t\t\t\tVNR VJIET\n\n\t\t\tCERTIFICATE OF
COMPLETION\n\n\tAwarded to Ms.%s for completing the workshop on
```

```
%s\n\t\t\tduring the year 2019-
2020\n============================================================
============================================================",na
me,course);
                fprintf(f3,"\n\tThis certificate is e - verifiable in your EduPrime
Database");
              }
            fclose(f3);
            printf("\n Your Certificate has been generated and downloaded,
please view it in the folder");
            printf("\n");
             if((rear==-1||queue[0]!=3)&&(queue[1]!=3&&queue[2]!=3))
            {
               push(3);
               x=x+1;
            }
               break;

  default: printf("\n Please select a valid course!");
            break;
}
printf("\n Do You Wish To Continue - (Y/N)");
fflush(stdin);
ch=getchar();
printf("\n============================================================
============================================================")
;
}while(ch=='y'||ch=='Y');
```

```
printf("\n All Your Certificates have been generated and saved. Would You like to view them on the screen now?(Y/N)");
fflush(stdin);
ch=getchar();
if(ch=='Y'||ch=='y')
{
do
{
delay(1200);
system("cls");
switch(pop())
{
      case 1: f1=fopen("NPTEL mock.txt","r");
                do
                {
                   c=fgetc(f1);
                   printf("%c",c);
                   delay(30);
                }while(c!=EOF);
                fclose(f1);
                x=x-1;
                break;

      case 2:  f2=fopen("INTERNSHIP.txt","r");
                 do
                {
                   c=fgetc(f2);
```

```
                printf("%c",c);
                delay(30);
              }while(c!=EOF);
              fclose(f2);
              x=x-1;
              break;

      case 3: f3=fopen("VNR.txt","r");
               do
              {
                c=fgetc(f3);
                printf("%c",c);
                delay(30);
              }while(c!=EOF);
              fclose(f3);
              x=x-1;
              break;

      case -1:printf("No certificates could be located");
               break;
}
}while(x>0);
}
return 0;
}
void push(int x)
```

```
{
   if(rear==-1)
      {
      rear=rear+1;
      queue[rear]=x;
      }
   else
   {
      rear=rear+1;
      queue[rear]=x;
   }
}

int pop()
{
int a;
   if(front==-1&&rear==-1)
      a=-1;
   else if(front==-1)
   {
      front=front+1;
      a=queue[front];
      front++;
   }
   else
     {
```

```
        a=queue[front];
        front++;
       }
return a;
}
```

OUTPUT: