

# **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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## 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\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\tCERTIFICATE OF COMPLETION\n\n\tAwarded to Mr.%s
for completing the course on %s\n\t\t\tduring the year 2019-
2020\n=====
=====","\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\\tduring the year 2019-
2020\\n=====
=====\\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')

```

```

    {

```



```

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

```

```

        fprintf(f3,"\n\t\t\t\tThis certificate is e - verifiable in your EduPrime
Database");
    }
    else
    {

```

```

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

```

```
%s\n\t\tduring the year 2019-  
2020\n=====,  
name,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)
```

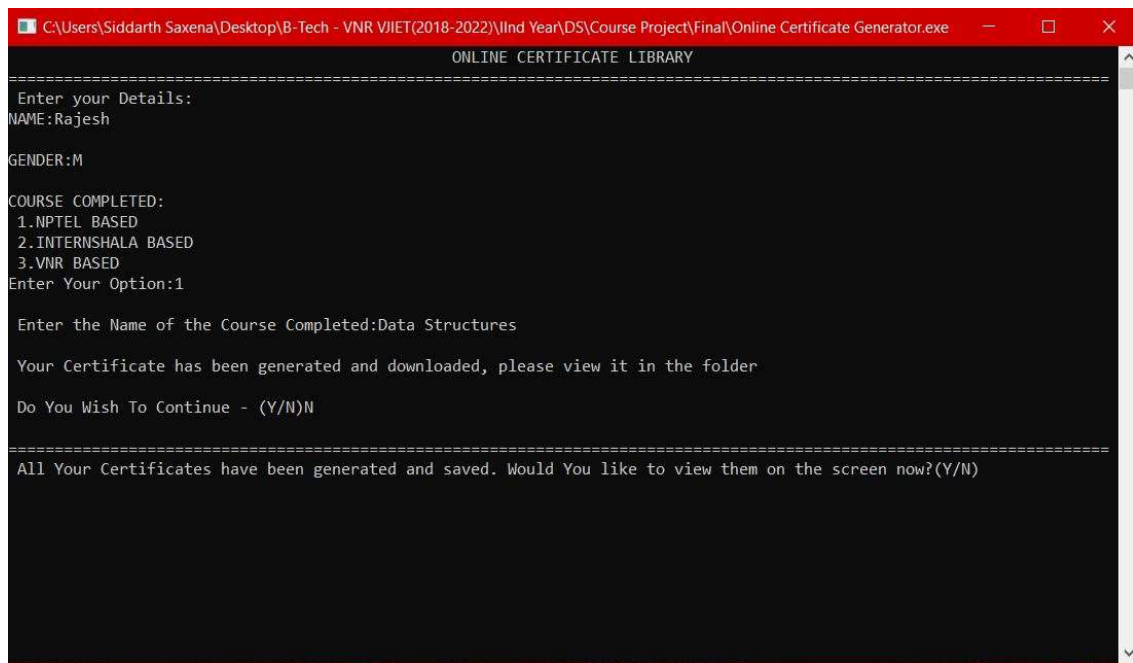
---

```
{  
    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  
    {
```

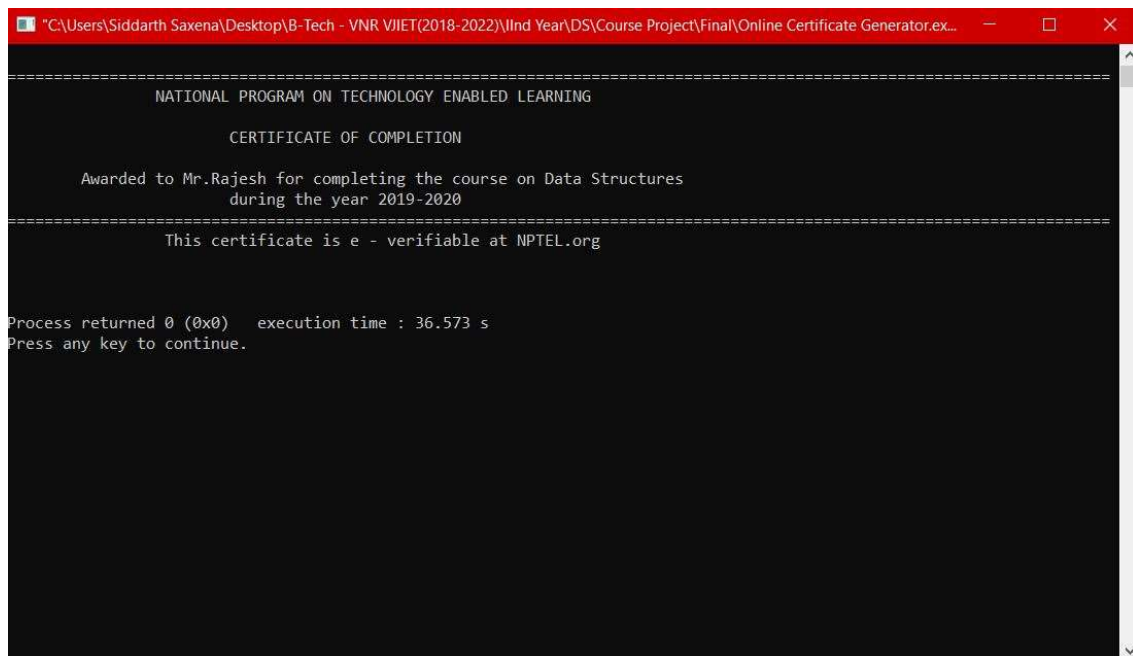
```
a=queue[front];  
  
front++;  
  
}  
  
return a;  
  
}
```

## OUTPUT:



A screenshot of a Windows application window titled "C:\Users\Siddarth Saxena\Desktop\B-Tech - VNR VJIE(2018-2022)\IInd Year\DS\Course Project\Final\Online Certificate Generator.exe". The application has a black background with white text. At the top, it says "ONLINE CERTIFICATE LIBRARY". Below this, it prompts the user to "Enter your Details:". The user has entered "NAME:Rajesh" and "GENDER:M". It then asks "COURSE COMPLETED:" and lists three options: "1.NPTEL BASED", "2.INTERNSHALA BASED", and "3.VNR BASED". The user has selected "1". It then prompts "Enter Your Option:1". Next, it asks "Enter the Name of the Course Completed:Data Structures". It then displays "Your Certificate has been generated and downloaded, please view it in the folder". It asks "Do You Wish To Continue - (Y/N)" and the user has entered "N". Finally, it displays "All Your Certificates have been generated and saved. Would You like to view them on the screen now?(Y/N)".

```
C:\Users\Siddarth Saxena\Desktop\B-Tech - VNR VJIE(2018-2022)\IInd Year\DS\Course Project\Final\Online Certificate Generator.exe  
ONLINE CERTIFICATE LIBRARY  
-----  
Enter your Details:  
NAME:Rajesh  
  
GENDER:M  
  
COURSE COMPLETED:  
1.NPTEL BASED  
2.INTERNSHALA BASED  
3.VNR BASED  
Enter Your Option:1  
  
Enter the Name of the Course Completed:Data Structures  
  
Your Certificate has been generated and downloaded, please view it in the folder  
  
Do You Wish To Continue - (Y/N)N  
  
-----  
All Your Certificates have been generated and saved. Would You like to view them on the screen now?(Y/N)
```



A screenshot of the same application window showing the generated certificate. The text reads: "NATIONAL PROGRAM ON TECHNOLOGY ENABLED LEARNING", "CERTIFICATE OF COMPLETION", "Awarded to Mr.Rajesh for completing the course on Data Structures during the year 2019-2020", and "This certificate is e - verifiable at NPTEL.org". At the bottom, it says "Process returned 0 (0x0) execution time : 36.573 s" and "Press any key to continue.".

```
"C:\Users\Siddarth Saxena\Desktop\B-Tech - VNR VJIE(2018-2022)\IInd Year\DS\Course Project\Final\Online Certificate Generator.exe"  
-----  
NATIONAL PROGRAM ON TECHNOLOGY ENABLED LEARNING  
  
CERTIFICATE OF COMPLETION  
  
Awarded to Mr.Rajesh for completing the course on Data Structures  
during the year 2019-2020  
  
-----  
This certificate is e - verifiable at NPTEL.org  
  
-----  
Process returned 0 (0x0) execution time : 36.573 s  
Press any key to continue.
```