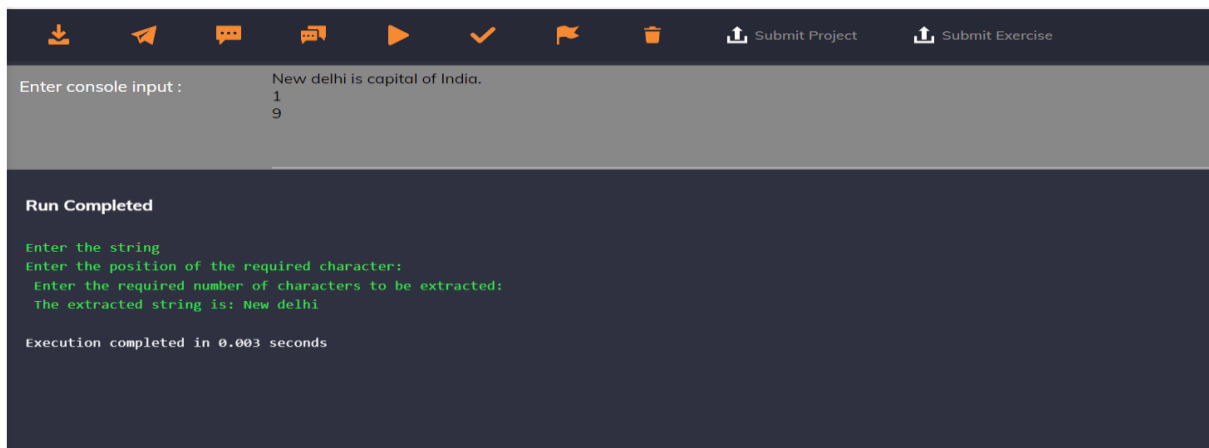


## 6. Write a C Program to extract a portion of a string from a character string

```
#include<stdio.h>
#include<string.h>
int main()
{
    char str1[50],str2[50];
    int i,j,n,m,l;
    printf("Enter the string\n");
    gets(str1); //scanf ("%s",str1);
    printf("Enter the position of the required character:\n ");
    scanf("%d",&n);
    printf("Enter the required number of characters to be extracted:\n ");
    scanf("%d",&m);
    l=strlen(str1);
    if(m+n-1<l)
    {
        for(i=n-1,j=0;i<m+n-1;i++,j++)
            str2[j]=str1[i];
        str2[j]='\0';
        printf ("The extracted string is: %s",str2);
    }
    else
        printf ("string extraction is not possible");
    return 0;
}
```

Output:



The screenshot shows a C program execution interface. At the top, there is a toolbar with icons for file operations, execution, and submission. Below the toolbar, the console input is shown as "New delhi is capital of India." followed by "1" and "9". The output section, titled "Run Completed", shows the program's execution: "Enter the string", "Enter the position of the required character:", "Enter the required number of characters to be extracted:", and "The extracted string is: New delhi". The execution time is noted as "Execution completed in 0.003 seconds".

```
Enter console input :      New delhi is capital of India.
                        1
                        9

Run Completed

Enter the string
Enter the position of the required character:
Enter the required number of characters to be extracted:
The extracted string is: New delhi

Execution completed in 0.003 seconds
```