

```
↳ #include <stdio.h>
#include <string.h>
#define SIZE 10
#define MAX_NAME 100

char queue [SIZE][MAX_NAME];
int front = 0;
int rear = -1;

// Function to add a job
Void addJob()
{
    if (rear == SIZE - 1)
    {
        printf ("Queue is full. Cannot add more jobs.\n");
        return;
    }

    char job [MAX_NAME];
    printf ("Enter job name : ");
    scanf ("%s", job); // Read string with spaces
    rear++;
    strcpy (queue [rear], job);
    printf ("Job added : %s\n", job);
}

// Function to delete a job.
Void deleteJob()
{
    if (front > rear)
    {
        printf ("Queue is empty. No job to delete.\n");
        return;
    }

    printf ("Job deleted : %s\n", queue [front]);
    front++;
}
```

```
// Function to display jobs.  
void displayJobs()  
{ if (front > rear)  
    { printf ("Queue is empty. No jobs to display.\n");  
     return;  
    }  
    printf ("Jobs in the queue:\n");  
    for (int i = front ; i <= rear ; i++)  
    { printf ("-%.8s\n", queue [i]);  
    }  
}  
  
// Main function  
int main ()  
{ int choice ;  
while (1) {  
    printf ("\n--- Job Queue Menu ---\n");  
    printf (" 1. Add Job\n");  
    printf (" 2. Delete Job\n");  
    printf (" 3. Display Jobs\n");  
    printf (" 4. Exit\n");  
    printf ("Enter your choice : ");  
    scanf ("%d", &choice);  
    if (choice == 1)  
    { addJob();  
    } else if (choice == 2)  
    { deleteJob();  
    } else if (choice == 3)  
    { displayJobs();  
    } else if (choice == 4)
```

```
    { printf(" Invalid choice. Please try again.\n");  
    }  
    return 0;  
}
```

- Output :-

--- Job Queue Menu ---

1. Add Job
2. Delete Job
3. Display Jobs
4. Exit

Enter your choice : 1

Enter job name : Compile report

Job added : Compile report

--- Job Queue Menu ---

1. Add Job
2. Delete Job
3. Display Job
4. Exit

Enter your choice : 1

Enter Job name : Backup data

Job added : Backup data

--- Job Queue Menu ---

1. Add Job
2. Delete Job
3. Display Jobs
4. Exit

Enter your choice : 3

Jobs in the queue :

Compile report

Backup data

--- Job Queue Menu ---

1. Add Job
2. Delete Job
3. Display Jobs
4. Exit

Enter your choice : 2

Job deleted : Compile report

--- Job Queue Menu ---

1. Add Job
2. Delete Job
3. Display Jobs
4. Exit

Enter Your choice : 3

Jobs in queue :

Backup data.

--- Job Queue Menu ---

1. Add Job
2. Delete Job
3. Display Jobs
4. Exit

Enter your choice : 4

Exiting program.