

Home Work 7

1.

A Journey of a Thousand Miles Must begin with a Single Step.

2.

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

```
#include <conio.h>
```

```
struct PlaneTicket
```

```
{
```

```
    char Name[100];
```

```
    char Destination[100];
```

```
    float TicketPrice;
```

```
};
```

```
struct PlaneTicket b1={"Monir","Bombay",22000.25};
```

```
struct PlaneTicket b2={"Sharmin","Bangkok",12500.75};
```

```
main()
```

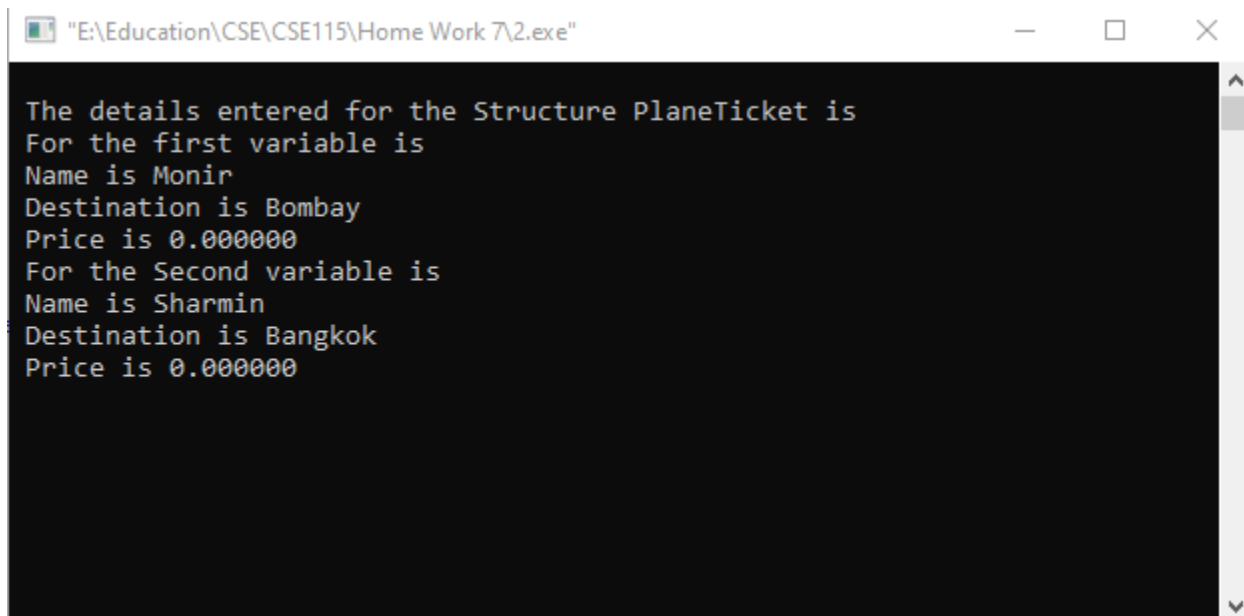
```
{
```

```
    printf("\n The details entered for the Structure PlaneTicket  
is");
```

```
printf("\n For the first variable is");
printf("\n Name is %s",&b1.Name);
printf("\n Destination is %s",&b1.Destination);
printf("\n Price is %f",&b1.TicketPrice);
printf("\n For the Second variable is");
printf("\n Name is %s",&b2.Name);
printf("\n Destination is %s",&b2.Destination);
printf("\n Price is %f",&b2.TicketPrice);

getch();
}
```

Output:



```
"E:\Education\CSE\CSE115\Home Work 7\2.exe"

The details entered for the Structure PlaneTicket is
For the first variable is
Name is Monir
Destination is Bombay
Price is 0.000000
For the Second variable is
Name is Sharmin
Destination is Bangkok
Price is 0.000000
```

3.

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

```
#include<string.h>
```

```
typedef struct Student {
```

```
    int StudentId;
```

```
    char name[50];
```

```
    float CGPA;
```

```
    char Major[20];
```

```
}stdnt;
```

```
struct Student HighestGPA(stdnt st[]){
```

```
    for(int i=0;i<3;i++)
```

```
        if(st[i].CGPA > st[0].CGPA)
```

```
            st[0] = st[i];
```

```
    return st[0];  
}
```

```
int main(int argc, char **argv)  
{
```

```
    stdnt st[20];  
    for(int i=0;i<3;i++) {  
        printf("enter %d Student id : " ,i);  
        scanf("%d",&st[i].StudentId); getchar();  
        printf("enter %d Student name : ",i );  
        gets(st[i].name);
```

```
  
        printf("enter %d Student cgpa : ",i );  
        scanf("%f",&st[i].CGPA);getchar();
```

```
  
        printf("enter %d Student major : ",i );  
        gets(st[i].Major);
```

```
}
```

```
stdnt st1 = HighestGPA(st);
```

```
printf("Highest Cgpa Holder : \n Name :");
```

```
puts(st1.name);
```

```
printf(" id : %d\n" , st1.StudentId);
```

```
printf("Major: ");
```

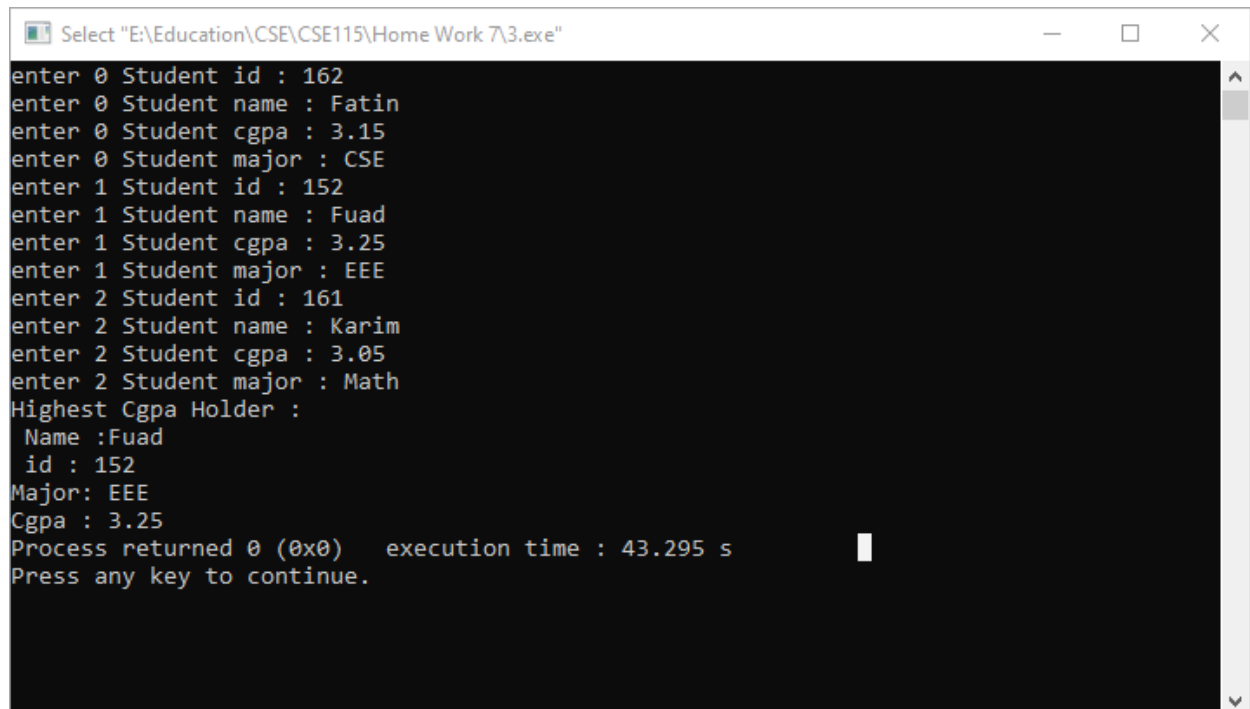
```
puts(st1.Major);
```

```
printf("Cgpa : %.2f" , st1.CGPA);
```

```
return 0;
```

```
}
```

Output:



```
Select "E:\Education\CSE\CSE115\Home Work 7\3.exe"
enter 0 Student id : 162
enter 0 Student name : Fatin
enter 0 Student cgpa : 3.15
enter 0 Student major : CSE
enter 1 Student id : 152
enter 1 Student name : Fuad
enter 1 Student cgpa : 3.25
enter 1 Student major : EEE
enter 2 Student id : 161
enter 2 Student name : Karim
enter 2 Student cgpa : 3.05
enter 2 Student major : Math
Highest Cgpa Holder :
  Name :Fuad
  id : 152
Major: EEE
Cgpa : 3.25
Process returned 0 (0x0)   execution time : 43.295 s
Press any key to continue.
```

4.

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

```
#include <string.h>
```

```
int main( )
```

```
{
```

```
    char str[100];
```

```
    char vowel[] = {'a','e','i','o','u'};
```

```
    puts("Enter String :");
```

```
    gets(str);
```

```
    for(int i=0;i<strlen(str);i++)
```

```
        for(int j=0;j<5;j++)
```

```
            if(str[i]==vowel[j])
```

```
                str[i]='#';
```

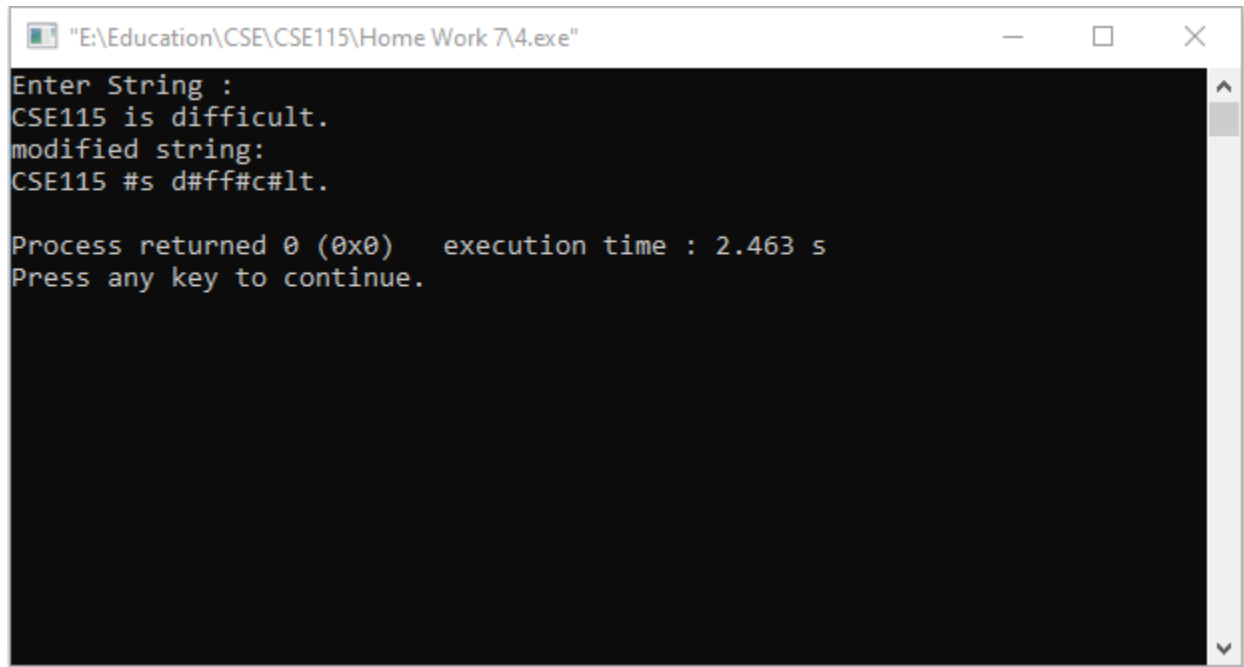
```
    puts("modified string: ");
```

```
    puts(str);
```

```
    return 0;
```

}

Output:

A screenshot of a Windows command prompt window. The title bar at the top reads '"E:\Education\CSE\CSE115\Home Work 7\4.exe"'. The window has standard minimize, maximize, and close buttons. The command prompt area has a black background with white text. The text displayed is: 'Enter String :', 'CSE115 is difficult.', 'modified string:', 'CSE115 #s d#ff#c#lt.', 'Process returned 0 (0x0) execution time : 2.463 s', and 'Press any key to continue.'.

```
"E:\Education\CSE\CSE115\Home Work 7\4.exe"
Enter String :
CSE115 is difficult.
modified string:
CSE115 #s d#ff#c#lt.

Process returned 0 (0x0)   execution time : 2.463 s
Press any key to continue.
```