

NAME:-PRIYANK JHAVERI

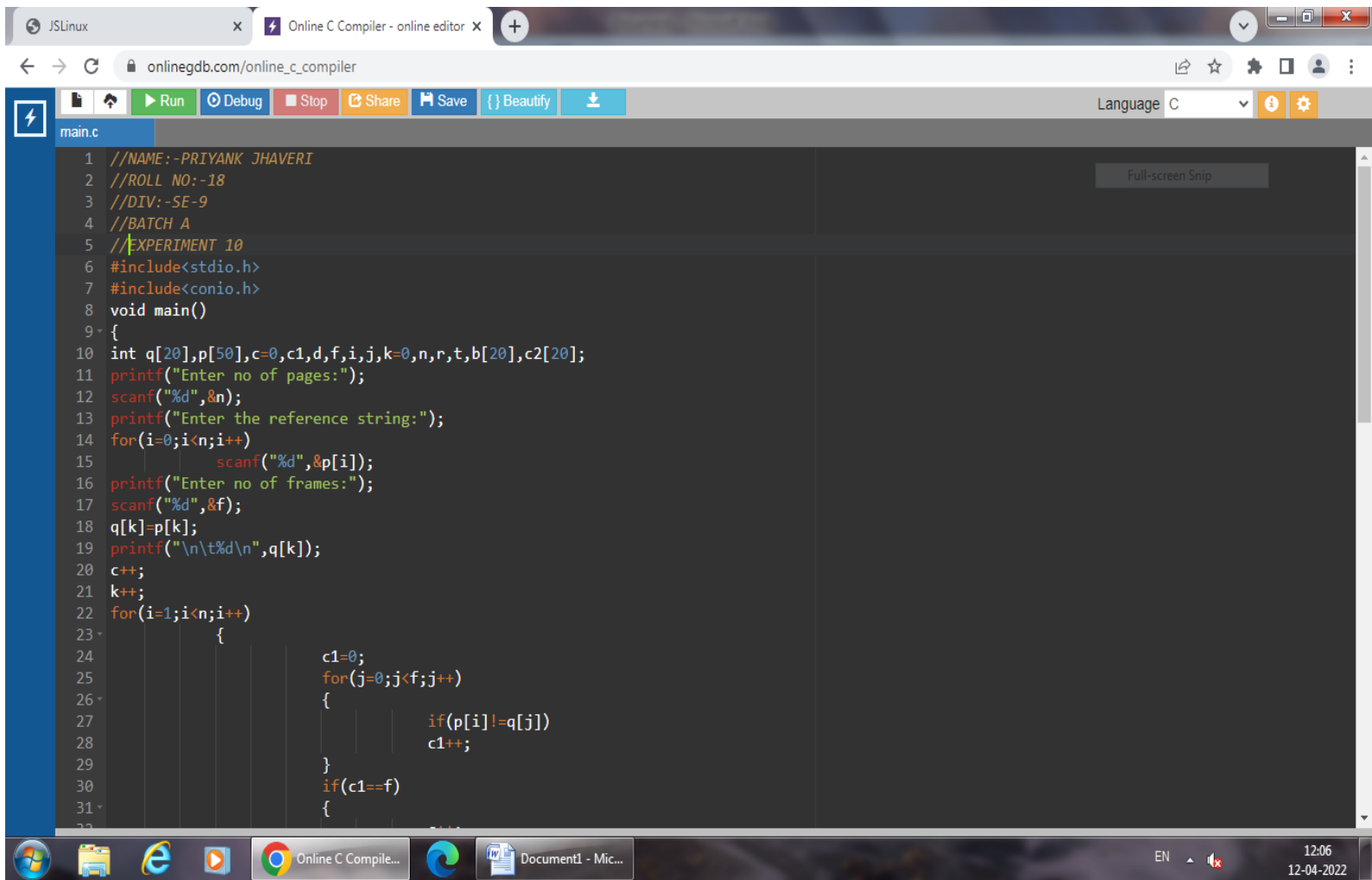
ROLL NO.:-18

DIVISION:- SE-9

BATCH A

## EXPERIMENT 9

### SOURCE CODE



```
1 //NAME:-PRIYANK JHAVERI
2 //ROLL NO:-18
3 //DIV:-SE-9
4 //BATCH A
5 //EXPERIMENT 10
6 #include<stdio.h>
7 #include<conio.h>
8 void main()
9 {
10 int q[20],p[50],c=0,c1,d,f,i,j,k=0,n,r,t,b[20],c2[20];
11 printf("Enter no of pages:");
12 scanf("%d",&n);
13 printf("Enter the reference string:");
14 for(i=0;i<n;i++)
15     scanf("%d",&p[i]);
16 printf("Enter no of frames:");
17 scanf("%d",&f);
18 q[k]=p[k];
19 printf("\n\t%d\n",q[k]);
20 c++;
21 k++;
22 for(i=1;i<n;i++)
23 {
24     c1=0;
25     for(j=0;j<f;j++)
26     {
27         if(p[i]!=q[j])
28             c1++;
29     }
30     if(c1==f)
31     {
32         // ...
33     }
34 }
```

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BATCH A



The screenshot shows a web browser window with the URL `onlinegdb.com/online_c_compiler`. The browser has two tabs: 'JSLinux' and 'Online C Compiler - online editor'. The compiler interface includes a toolbar with buttons for 'Run', 'Debug', 'Stop', 'Share', 'Save', and 'Beautify'. The language is set to 'C'. The code editor displays a C program for calculating the number of page faults. The code is as follows:

```
29 }
30 if(c1==f)
31 {
32     c++;
33     if(k<f)
34     {
35         q[k]=p[i];
36         k++;
37         for(j=0;j<k;j++)
38             printf("\t%d",q[j]);
39         printf("\n");
40     }
41     else
42     {
43         for(r=0;r<f;r++)
44         {
45             c2[r]=0;
46             for(j=i-1;j<n;j--)
47             {
48                 if(q[r]!=p[j])
49                     c2[r]++;
50                 else
51                     break;
52             }
53         }
54         for(r=0;r<f;r++)
55             b[r]=c2[r];
56         for(r=0;r<f;r++)
57         {
58             for(j=r;j<f;j++)
59             {
60                 if(b[r]<b[j])
```

```
60                 if(b[r]<b[j])
61                 {
62                     t=b[r];
63                     b[r]=b[j];
64                     b[j]=t;
65                 }
66             }
67         }
68         for(r=0;r<f;r++)
69         {
70             if(c2[r]==b[0])
71                 q[r]=p[i];
72             printf("\t%d",q[r]);
73         }
74         printf("\n");
75     }
76 }
77 }
78 printf("\nThe no of page faults is %d",c);
79 }
```

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OUTPUT

```
input
Enter no of pages:10
Enter the reference string:7 5 9 4 3 7 9 2 6 1
Enter no of frames:3

7
7      5
7      5      9
4      5      9
4      3      9
4      3      7
9      3      7
9      2      7
9      2      6
1      2      6

The no of page faults is 10

...Program finished with exit code 0
Press ENTER to exit console.
```