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Course: C, DSA and C++

Assignment 6: Pattern simple nested for loop

```
Q.1. WAP to print /* 1234
2345
3456
4567 */
```

```
aditi@DESKTOP-ANL3TOH: /n ×
/* 1 2 3 4
   4 5 6 7 */
#include<stdio.h>
void main()
         int row;
        printf("Enter the number of rows:\n");
        scanf("%d",&row);
        int num=1;
         int org;
        for(int i=1;i<=row;i++)</pre>
                org=num;
                 for(int j=1; j<=row; j++)</pre>
                          printf("%d ",num);
                          num++;
                 printf("\n");
                 num=org+1;
         }
```

```
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ vim ques1.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ cc ques1.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ ./a.out
Enter the number of rows:
4
1 2 3 4
2 3 4 5
3 4 5 6
4 5 6 7
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$
```

```
Q.2 WAP to print 1 2 3

a b c

1 2 3

a b c
```

```
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ vim ques2.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ cc ques2.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ ./a.out
1 2 3 4
a b c d
1 2 3 4
a b c d
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$
```

```
Q.3. WAP to print 1 1 1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 4
```

```
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ vim ques3.c aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ cc ques3.c aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ ./a.out
1 1 1 1
2 2 2 2 2
3 3 3 3
4 4 4 4 4
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$
```

```
Q.4. WAP to print A B C
```

DEF

GHI

```
#include<stdio.h>
void main()

char ch = 'A';
    for(int i=1;i<=3;i++)
    {
        for(int j=1;j<=3;j++)
        {
            printf("%c ",ch);
            ch++;
        }
        printf("\n");
}</pre>
```

### **Output:**

```
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ vim ques4.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ cc ques4.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ ./a.out
A B C
D E F
G H I
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$
```

Q.5. WAP to print A B C D

BCDE

CDEF

DEFG

```
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ vim ques5.c aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ cc ques5.c aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ ./a.out

A B C D

B C D E

C D E F

D E F G

aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$
```

```
Q.6. WAP to print /* $ = $ = $ = $ = $ = $ = $ = $ = $ |
```

```
Q.7. WAP to print /* 1 2 9 4
25 6 49 8
81 10 121 12
169 14 225 16 */
```

```
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ vim ques7.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ cc ques7.c
^[[Aaditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ ./a.out
    1 42    9 44
    25 46    49 48
    81 410 121 412
    169 414 225 416
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$
```

```
Q.8. WAP to print /* 1 3 5
7 9 11
13 15 17 */
```

```
#include<stdio.h>

void main()
{
    int num=1;
    for(int i=1;i<=3;i++)
    {
        for(int j=1;j<=3;j++)
        {
            printf("%2d ",num);
            num=num+2;
        }
        printf("\n");
    }
}</pre>
```

```
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ vim ques8.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ cc ques8.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ ./a.out
1 3 5
7 9 11
13 15 17
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ |
```

```
Q.9. WAP to print /* 2 5 10
17 26 37
50 65 82 */
```

```
#include<stdio.h>
void main()
{
    int gap=1;
    int num=1;
    for(int i=1;i<=3;i++)
    {
        for(int j=1;j<=3;j++)
        {
            num=num+gap;
            printf("%2d ",num);
            gap=gap+2;
        }
        printf("\n");
    }
}</pre>
```

```
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ vim ques9.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ cc ques9.c
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ ./a.out
2 5 10
17 26 37
50 65 82
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$
```

```
Q.10. WAP to print /* D4 C3 B2 A1

D4 C3 B2 A1

D4 C3 B2 A1

D4 C3 B2 A1 */
```

```
aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ vim ques9.c aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ vim ques10.c aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ cc ques10.c aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$ ./a.out D4 C3 B2 A1 D4 C3 B2 A1 D4 C3 B2 A1 D4 C3 B2 A1 aditi@DESKTOP-ANL3TOH:/mnt/d/Core2Web/assignment6Pattern$
```