

Computer Science 2

Practical Work 0: For loop again (revision)

Exercise 1:

Write a C program to following pattern:

```
12345
1234
123
12
1
```

Solution

```
#include <stdio.h>

int main() {
    int i, j;

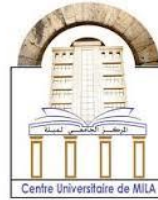
    for(i=5;i>=1;i--)
    {
        for(j=1;j<=i;j++)
        {
            printf("%d",j);

        }
        printf("\n");
    }
    return 0;
}
```

Exercise 2:

Write a C program to following pattern:

```
A
BC
DEF
GHIJ
```



Computer Science 2

Solution

```
#include<stdio.h>
int main() {
int i,j;
char x='A';
for(i=1;i<=4;i++)
{
for(j=1;j<=i;j++)
{
printf("%c",x);
x++;
}
printf("\n");
}
return 0;
}
```

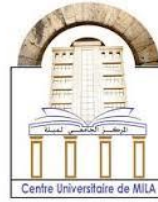
Exercise 3:

Write a C program to following pattern:

```
12345
12345
12345
12345
```

```
12345
12345
12345
12345
```

```
12345
12345
12345
12345
```



Computer Science 2

Solution

```
#include <stdio.h>
int main() {
int i,j,k;
for(i=1;i<=3;i++)
{
for(j=1;j<=4;j++)
{
for(k=1;k<=5;k++)
{
printf("%d",k);

}
printf("\n");
}
printf("\n");
}

return 0;
}
```

Proposed exercise as a homework:

Write a C program to following pattern:

```
*   *   *   *
**  **  **  **
*** *** *** ***
```