```
Q.1 Write a Program to print the below pattern using nested for loop.
21
321
4321
54321
Ans: #include<stdio.h>
int main()
  int i, j;
  for(i = 1; i <= 5; i++)
    for(j = i; j >= 1; j--)
    {
      printf("%d ", j);
    printf("\n");
  return 0;
}
O\p: /tmp/PISVnbnVlx.o
21
321
4321
54321
=== Code Execution Successful ===
Q.2 Write a Program to print the below pattern using nested for loop.
5
45
3 4 5
2345
12345
Ans: #include<stdio.h>
int main()
  int i, j;
```

```
for(i = 5; i >= 1; i--)
    for(j = i; j \le 5; j++)
      printf("%d ", j);
    printf("\n");
  return 0;
O\p: /tmp/D6fw50fs4F.o
45
3 4 5
2345
12345
=== Code Execution Successful ===
Q.3 Write a Program to print the below pattern using nested for loop.
5
44
333
2222
11111
Ans: #include<stdio.h>
int main()
  int i, j;
  for(i = 5; i >= 1; i--)
    for(j = 5; j >= i; j--)
      printf("%d ", i);
    printf("\n");
  }
  return 0;
O\p: /tmp/ywFdlpLsoM.o
5
44
333
```

```
2222
11111
=== Code Execution Successful ===
Q.4 Write a Program to print the below pattern using nested for loop.
12345
2345
345
45
5
Ans: #include<stdio.h>
int main()
{
  int i, j;
 for(i = 1; i <= 5; i++)
    for(j = i; j \le 5; j++)
     printf("%d ", j);
    printf("\n");
 return 0;
O\p:/tmp/3hplLZYrYh.o
12345
2345
3 4 5
45
5
=== Code Execution Successful ===
Q.5 Write a Program to print the below pattern using nested for loop.
11111
2222
333
44
Ans: #include<stdio.h>
```

int main()

```
int i, j;
  for(i = 1; i <= 5; i++)
    for(j = 5; j >= i; j--)
      printf("%d ", i);
    printf("\n");
  }
  return 0;
}
O\p:/tmp/E3WTUQYHUd.o
11111
2222
333
44
5
=== Code Execution Successful ===
Q.6 Write a Program to print the below pattern using nested for loop.
10101
1010
101
10
1
Ans: #include<stdio.h>
int main()
{
  int i, j;
  for(i = 5; i >= 1; i--)
    for(j = 1; j \le i; j++)
      if(j % 2 == 1)
        printf("1 ");
      }
      else
      {
         printf("0 ");
```

```
}
    printf("\n");
  return 0;
O\p:/tmp/8L7t8Mz9fp.o
10101
1010
101
10
1
=== Code Execution Successful ==
Q.7 Write a Program to print the below pattern using nested for loop.
Α
ВА
CBA
DCBA
EDCBA
Ans #include <stdio.h>
int main() {
  for (int i = 0; i < 5; i++) {
    char ch = 'A' + i;
    for (int j = 0; j <= i; j++) {
      printf("%c ",ch - j);
    }
    printf("\n");
  return 0;
o\p:/tmp/d10pFTlwh4.o
ВА
СВА
DCBA
EDCBA
```

Q.8 Write a Program to print the below pattern using nested for loop.

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
Ans #include <stdio.h>
int main() {
  int k = 1;
  for(int i = 1; i <= 5; i++) {
    for(int j = 1; j \le i; j++) {
      printf("%3d", k);
      k++;
    }
    printf("\n");
  return 0;
O\p /tmp/lsU7tyPFPj.o
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

=== Code Execution Successful ===