```
Input: 987
Output:
987
987
987
#include<stdio.h>
void Pattern(int iNo);
int main()
{
       int no = 0;
       printf("Enter the Number\n");
       scanf("%d", &no);
       Pattern(no);
       return 0;
}
void Pattern(int iNo)
       int i = 0, j = 0, idigit = 0,icnt=0,rev=0,n=0,temp=0;
       while (iNo != 0)
       {
              icnt++;
              idigit = iNo % 10;
              rev = rev * 10 + idigit;
              iNo = iNo / 10;
       }
       temp = rev;
       for (i = 1;i <= icnt;i++)</pre>
       {
              for (j = 1;j <= icnt;j++)</pre>
                     while (rev != 0)
                            n = rev \% 10;
                             printf("%d\t", n);
                            rev = rev / 10;
                     }
              }
              rev = temp;
              printf("\n");
       }
}
```

2. Write a program which accept number from user and display below pattern

```
Output:
1789
1789
1789
1789
#include<stdio.h>
void Pattern(int iNo);
int main()
{
       int no = 0;
       printf("Enter the Number\n");
       scanf("%d", &no);
       Pattern(no);
       return 0;
}
void Pattern(int iNo)
{
       int i = 0, j = 0, idigit = 0, icnt = 0, temp = 0;
       temp = iNo;
       while (iNo != 0)
              icnt++;
              idigit = iNo % 10;
              iNo = iNo / 10;
       iNo = temp;
       for (i = 1;i <= icnt;i++)</pre>
              for (j = 1;j <= icnt;j++)</pre>
                     while (iNo!= 0)
                            idigit= iNo % 10;
                            printf("%d\t", idigit);
                            iNo = iNo / 10;
                     }
              iNo = temp;
              printf("\n");
       }
}
```

Input: 9871

```
Output:
1
17
178
1789
#include<stdio.h>
void Pattern(int iNo);
int main()
{
       int no = 0;
       printf("Enter the Number\n");
       scanf("%d", &no);
       Pattern(no);
       return 0;
}
void Pattern(int iNo)
       int i = 0, j = 0, idigit = 0, icnt = 0, temp = 0;
       temp = iNo;
       while (iNo != 0)
       {
              icnt++;
              idigit = iNo % 10;
              //rev = rev * 10 + idigit;
              iNo = iNo / 10;
       }
       iNo = temp;
       for (i = 1;i <= icnt;i++)</pre>
              for (j = (icnt-i);j < icnt;j++)</pre>
                     if(iNo != 0)
                             idigit = iNo % 10;
                             printf("%d\t", idigit);
                             iNo = iNo / 10;
                     }
              }
              iNo = temp;
              printf("\n");
       }
}
```

Input: 9871

Output:

```
1789
178
17
1
#include<stdio.h>
void Pattern(int iNo);
int main()
{
       int no = 0;
       printf("Enter the Number\n");
       scanf("%d", &no);
       Pattern(no);
       return 0;
}
void Pattern(int iNo)
       int i = 0, j = 0, idigit = 0, icnt = 0, temp = 0;
       temp = iNo;
       while (iNo != 0)
              icnt++;
              idigit = iNo % 10;
              //rev = rev * 10 + idigit;
              iNo = iNo / 10;
       iNo = temp;
       for (i = 1;i <= icnt;i++)</pre>
              for (j = i-1;j < icnt;j++)</pre>
                     if (iNo != 0)
                            idigit = iNo % 10;
                             printf("%d\t", idigit);
                             iNo = iNo / 10;
                     }
              iNo = temp;
              printf("\n");
       }
}
```

Input: 9871

```
Output:
1789
1009
1009
1789
#include<stdio.h>
void Pattern(int iNo);
int main()
{
       int no = 0;
       printf("Enter the Number\n");
       scanf("%d", &no);
       Pattern(no);
       return 0;
}
void Pattern(int iNo)
       int i = 0, j = 0, idigit = 0, icnt = 0, temp = 0;
       temp = iNo;
       while (iNo != 0)
       {
              icnt++;
              idigit = iNo % 10;
              iNo = iNo / 10;
       iNo = temp;
       for (i = 1;i <= icnt;i++)</pre>
              for (j =1;j <= icnt;j++)</pre>
                     if (i==1 || j==1 || i==icnt || j==icnt)
                            if (iNo != 0)
                                    idigit = iNo % 10;
                                    printf("%d\t", idigit);
                                    iNo = iNo / 10;
                            }
                     }
                     else
                     {
                            iNo = iNo / 10;
                            printf("0\t");
                     }
              }
              iNo = temp;
              printf("\n");
       }
}
```