

Assignment 17

Q.1 Accept String Display Pattern

Input = Hello

Output :

```
H e l l o
H e l l o
H e l l o
H e l l o
H e l l o
```

```
#include<stdio.h>
void pattern(char *str)
{
    int icnt = 0;
    int i = 0;
    int j = 0;
    int k = 0;
    int f = 0;
    while (*str != '\0')
    {
        icnt++;
        //printf("%c\t",*str);
        str++;
    }
    k = icnt;
    while (k != 0)
    {
        str--;
        //printf("%c",*str);
        k--;
    }
    for (i = 1; i <= icnt; i++)
    {
        for (j = 1; j <= icnt; j++)
        {
            if (*str != '\0')
            {
                f++;
                printf("%c\t", *str);
                str++;
            }
        }
        printf("\n");
        while (f != 0)
        {
            str--;
            f--;
        }
    }
}

int main()
{
    char ch[30];
    printf("enter the string\n");
    scanf("%[^'\n']s", ch);
    pattern(ch);
    return 0;
}
```

```
}
```

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

Input : Hello

Output :

H e l l o

H e l l

H e l

H e

H

```
#include<stdio.h>
void pattern(char *str)
{
    int icnt = 0;
    int i = 0;
    int j = 0;
    int k = 0;
    int f = 0;
    while (*str != '\0')
    {
        icnt++;
        str++;
    }
    k = icnt;
    while (k != 0)
    {
        str--;
        k--;
    }
    for (i = 1; i <= icnt; i++)
    {
        for (j = (i - 1); j < icnt; j++)
        {
            if (*str != '\0')
            {
                f++;
                printf("%c\t", *str);
                str++;
            }
        }
        printf("\n");
        while (f != 0)
        {
            str--;
            f--;
        }
    }
}

int main()
{
    char ch[30];
    printf("enter the string\n");
    scanf("%[^'\n']s", ch);
    pattern(ch);
    return 0;
}
```

3. Write a program which accept string from user and display

below pattern
Input : Hello
Output :

```
H
H e
H e l
H e l l
H e l l o
```

```
#include<stdio.h>
void pattern(char *str)
{
    int icnt = 0;
    int i = 0;
    int j = 0;
    int k = 0;
    int f = 0;
    while (*str != '\0')
    {
        icnt++;
        str++;
    }
    k = icnt;
    while (k != 0)
    {
        str--;
        k--;
    }
    for (i = 1; i <= icnt; i++)
    {
        for (j = (icnt - i); j < icnt; j++)
        {
            if (*str != '\0')
            {
                f++;
                printf("%c\t", *str);
                str++;
            }
        }
        printf("\n");
        while (f != 0)
        {
            str--;
            f--;
        }
    }
}

int main()
{
    char ch[30];
    printf("enter the string\n");
    scanf("%[^'\n']s", ch);
    pattern(ch);
    return 0;
}
```

4. Write a program which accept string from user and display below pattern

Input : Hello

Output :

```
H e l l o
H * * * o
H * * * o
H * * * o
H e l l o
```

```
#include<stdio.h>
void pattern(char *str)
{
    int icnt = 0;
    int i = 0;
    int j = 0;
    int k = 0;
    int f = 0;
    while (*str != '\0')
    {
        icnt++;
        str++;
    }
    k = icnt;
    while (k != 0)
    {
        str--;
        k--;
    }
    for (i = 1; i <= icnt; i++)
    {
        for (j = 1; j <= icnt; j++)
        {
            if (i == 1 || i == icnt || j == 1 || j == icnt)
            {
                if (*str != '\0')
                {
                    f++;
                    printf("%c\t", *str);
                    str++;
                }
            }
            else
            {
                printf("*\t");
                //str++;
            }
        }
        printf("\n");
        while (f != 0)
        {
            str--;
            f--;
        }
    }
}
int main()
```

```

{
    char ch[30];
    printf("enter the string\n");
    scanf("%[^'\n']s", ch);
    pattern(ch);
    return 0;
}

```

5. Write a program which accept string from user and display below pattern

Input : Hello
 Output :
 Input: Hello
 H @ @ @ @
 H e @ @ @
 H e l @ @
 H e l l @
 H e l l o

```

#include<stdio.h>
void pattern(char *str)
{
    int icnt = 0;
    int i = 0;
    int j = 0;
    int k = 0;
    int f = 0;
    while (*str != '\0')
    {
        icnt++;
        str++;
    }
    k = icnt;
    while (k != 0)
    {
        str--;
        k--;
    }
    for (i = 1; i <= icnt; i++)
    {
        for (j = 1; j <= icnt; j++)
        {
            if (i >= j)
            {
                if (*str != '\0')
                {
                    f++;
                    printf("%c\t", *str);
                    str++;
                }
            }
            else
            {
                printf("@\t");
            }
        }
        printf("\n");
    }
}

```

```
        while (f != 0)
        {
            str--;
            f--;
        }
    }

int main()
{
    char ch[30];
    printf("enter the string\n");
    scanf("%[^'\n']s", ch);
    pattern(ch);
    return 0;
}
```