

C assignments – Day 19 (19-Sept-2022)

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All the questions are typed in comments of the code.

Que1.

```
// Write a program to read two numbers from the user and display the table s
// between these two numbers.
// 2*1 3*1 4*1 5*1
// 2*2 3*2 4*2 5*2
// 2*3 3*3 4*3 5*3

#include <stdio.h>
void main()
{
    int a, b, multiplier, k;
    printf("Enter two numbers\n");
    scanf("%d%d", &a, &b);
    if (a > b)
    {
        multiplier = 1;
        while (multiplier <= 10)
        {
            for (k = b; k <= a; k++)
            {
                printf("%d*%d\t", k, multiplier);
            }
            multiplier++;
            printf("\n");
        }
    }
    else
    {
        multiplier = 1;
        while (multiplier <= 10)
        {
            for (k = a; k <= b; k++)
            {
                printf("%d*%d\t", k, multiplier);
            }
            multiplier++;
            printf("\n");
        }
    }
}
```

```
    }  
  }  
}
```

Que2.

```
// Print the folowing pattern.  
// 1  
// 12  
// 123  
// 1234  
  
#include <stdio.h>  
void main()  
{  
    int i = 1, n, j;  
    printf("Enter the number\n");  
    scanf("%d", &n);  
  
    while (i <= n)  
    {  
        printf("\n");  
        j = 1;  
        while (j <= i)  
        {  
            printf("%d", j);  
            j++;  
        }  
  
        i++;  
    }  
}
```

Que3.

```
// Print the following pattern.
// 54321
// 5432
// 543
// 54
// 5

#include <stdio.h>
void main()
{
    int i = 1, n, j;
    printf("Enter the number\n");
    scanf("%d", &n);

    while (i <= n)
    {
        printf("\n");
        j=n;
        while (j>=i){
            printf("%d",j);
            j--;
        }
        i++;
    }
}
```

Que4.

```
// Print the following pattern.
// 123456
// 23456
// 3456
// 456
// 56
// 6

#include <stdio.h>
void main()
{
    int i = 1, n, j, k = 1;
    printf("Enter the number\n");
    scanf("%d", &n);
```

```

while (i <= n)
{
    printf("\n");
    j=i;
    // printf("\n");
    while (j <= n)
    {
        printf("%d", j);
        j++;
    }
    i++;
}

```

Que4.

```

// Print the following pattern.
// 54321
// 4321
// 321
// 21
// 1

#include <stdio.h>
void main()
{
    int i, n, j,k;
    printf("Enter the number\n");
    scanf("%d", &n);
    i=n;
    while (i >= 1)
    {
        printf("\n");
        j=i;
        while (j >= 1)
        {
            printf("%d", j);
            j--;
        }

        i--;
    }
}

```

```
}  
}
```