

Computer programming for MTE students	Group No.:
Name:	Marks:

Write a program that uses looping to print the following table of values. Use the tab escape sequence, `\t`, in the `printf` statement to separate the columns with tabs

N	10*N	100*N	1000*N
1	10	100	1000
2	20	200	2000
3	30	300	3000
4	40	400	4000
5	50	500	5000
6	60	600	6000
7	70	700	7000
8	80	800	8000
9	90	900	9000
10	100	1000	10000

```
#include <stdio.h>
#include <stdlib.h>
main()
{
    int i,n = 1;
    printf("\nN\t10*N\t100*N\t1000*N");
    for(i=1;i<=10;i++)
    {
        printf("\n%d\t%d\t%d\t%d",i,i*10,i*100,i*1000);
    }
    getch();
}
```

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Write a program that keeps printing the multiples of the integer 2, namely 2, 4, 8, 16, 32, 64, and so on for 10 times.

```
#include <stdio.h>
#include <stdlib.h>
main()
{
    int i,n = 1;
    for(i=1;i<=10;i++)
    {
        n = n*2;
        printf("%d\t",n);
    }

    getch();
}
```

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Write a program that estimates the value of the mathematical constant **e** by using the formula:

$$e = 1 + \frac{1}{1!} + \frac{1}{2!} + \frac{1}{3!} + \dots + \frac{1}{n!}$$

```
#include <stdio.h>
#include <stdlib.h>
main()
{
    int i,n;
    float t=1, e = 1;
    printf("\nNumber of terms: ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        t = t*i;
        e = e+1/t;
    }
    printf("approximated e :%f",e);
    getch();
}
```