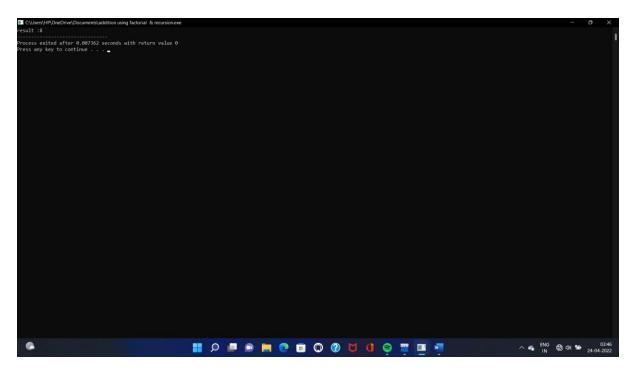


//*diamond with space*//

```
#include<stdio.h>
int main()
{
        int i,j,k;
        for(i=0;i<3;i++)
         {
                 for(j=0;j<2*(2-i);j++)
                  printf(" ");
                 for(k=0;k<2*i+1;k++)
                  printf("* ");
                  printf("\n");
         }
        for(i=2;i>0;i--)
        {
                 for(j=0;j<2*(3-i);j++)
                  printf(" ");
                 for(k=0;k<2*i-1;k++)
                  printf("* ");
```

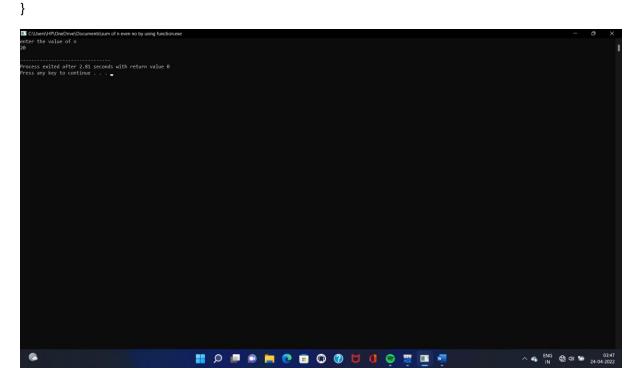
```
printf("\n");
       }
       return 0;
}
//*addition of n numbers by using factorial & recursion*//
#include<stdio.h>
int fact(int);
int main()
{
       int n,p;
       printf("enter the value of n\n");
       scanf("%d",&n);
       p=fact(n);
       printf("result :%d",p);
       return 0;
}
int fact(int x)
{
       if(x==0 | | x==1)
       return 1;
       else
        return x+fact(x-1);
}
```



//*sum of even no using function*//

```
#include <stdio.h>
int even(int);
int main()
{
        int i,n,sum=0;
        printf("enter the value of n\n");
        scanf("%d",&n);
        for(i=1;i<=n;i++)
        {
                if(even(i)==2)
                sum=sum+i;
        }
        return 0;
}
int even(int x)
{
        if(x%2==0)
```

```
return 2;
else
return 1;
```



//*factorial by using function & recursion*//

```
#include<stdio.h>
int fact(int);
int main()
{
    int n,p;
    printf("enter the value of n\n");
    scanf("%d",&n);
    p=fact(n);
    printf("result : %d",p);
    return 0;
    }
    int fact(int x,int result)
    {
        if(x==0 | |x==1)
```

return result;