In [12]:

```
 def compute_grade(marks):
    if any(mark < 40 for mark in marks):
        return "Fail"

    aggregate = sum(marks)/len(marks)

    if aggregate > 75:
        return "Distinction"
    elif 60 <= aggregate <= 75:
        return "First Division"
    elif 50 <= aggregate <= 60:
        return "Second Division"
    elif 40 <= aggregate <= 50:
        return "Third Division"
    else:
        return "Fail"
marks = []

for i in range(5):
            mark = int(input(f"Enter marks f
            marks.append(mark)

grade = compute_grade(marks)

print("\nStudent's Result: ")
print(f"Marks: {marks}")
print(f"Aggregate Percentage: {sum(marks)/5:
print(f"Grade: {grade}")
```

```
Student's Result:
Marks: [50, 67, 92, 96, 89]
Aggregate Percentage: 78.80%
Grade: Distinction
```

In [ ]:

In [1]:

```
def fibonacci(n):
   if n <= 1:
      return n
   return fibonacci(n-1) + fibonacci(n-2)
terms = int(input("Enter the number of terms
for i in range(terms):
    print(fibonacci(i),end=" ")
```

```
0 1 1 2 3 5 8 13 21 34
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [5]:

```
n=int(input("Enter interger number"))
for i in range(n):
     print(' ' * (n-i-1) + '* '* (i+1))
```

```
         *
        * *
       * * *
      * * * *
     * * * * *
    * * * * * *
   * * * * * * *
  * * * * * * * *
 * * * * * * * * *
* * * * * * * * * *
```

In [7]:

```
n=int(input("Enter interger number"))
for i in range(n):
     if i == 0 or i == n-1:
      print(' ' * (n-i-1) +'* ' * (i+1))
     else:
         print(' ' * (n-i-1) +'* ' + '  ' *
```

```
         *
        * *
       *   *
      *     *
     *       *
    *         *
   *           *
  *             *
 *               *
* * * * * * * * * *
```

In [ ]:

In [6]:

```python
n=int(input("Enter a number: "))
factorial = 1
for i in range(1,n+1):
    factorial *= i
print("Factorial of ",n,"is",factorial)
```

```
Factorial of  10 is 3628800
```

In [ ]:

In [1]:

```
print("THANKS FOR WELCOMING")
```

```
THANKS FOR WELCOMING
```

write the python program to read value from keyboard and print msg n times

In [4]:

```
n=input("enter the value of n: ")
```

In [7]:

```
n=int(input("enter the value of n: "))
for i in range(n):
    print("WELCOME TO EDS LAB")
```

```
WELCOME TO EDS LAB
WELCOME TO EDS LAB
WELCOME TO EDS LAB
WELCOME TO EDS LAB
WELCOME TO EDS LAB
WELCOME TO EDS LAB
WELCOME TO EDS LAB
WELCOME TO EDS LAB
WELCOME TO EDS LAB
WELCOME TO EDS LAB
```

to write python program to find area of rectangle

In [8]:

```
l=int(input("Enter length: "))
b=int(input("Enter width: "))
area=l*b
print("Area of provided Rectaangle is: ",area)
```

```
Area of provided Rectaangle is:  100
```

to write python program to find area of circle

In [10]:

```
r=int(input("enter radius of circle: "))
area=3.14*r*r
print("Areea of given circle is: ",area)
```

```
Areea of given circle is:  78.5
```

In [12]:

```
import math
r=int(input("Enter radius of circle: "))
area=math.pi*r*r
print("Area of circle: ",area)
```

```
Area of circle:  314.1592653589793
```

```
In [ ]:
```