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CSE 2<sup>nd</sup> Year 3<sup>rd</sup> Sem

Roll : 33

## OUTPUTS

### Q1

```
Enter the range upto which you want the fibonacci numbers: 10
Press 1 for recursive and 2 for iterative solution: 1
Recursive solution:
[0, 1, 1, 2, 3, 5, 8, 13, 21, 34]
```

### AND

```
Enter the range upto which you want the fibonacci numbers: 10
Press 1 for recursive and 2 for iterative solution: 2
Iterative solution:
0
1
1
2
3
5
8
13
21
34
```

### Q2

```
Enter the number of rows: 7
      1
     1 1
    1 2 1
   1 3 3 1
  1 4 6 4 1
 1 5 10 10 5 1
1 6 15 20 15 6 1
```

### Q3

```
Enter the limit: 5
Enter the number: 80
Enter the number: 160
Enter the number: 270
Enter the number: 50
Enter the number: 90
GCD: 10
```

#### Q4

```
Enter first number: 20
Enter second number: 30
1.Add  2.Subtract  3.Multiply
4.Divide  5.Exponent  6.Exit
Enter your choice: 1
Sum is: 50
Enter first number: 30
Enter second number: 20
1.Add  2.Subtract  3.Multiply
4.Divide  5.Exponent  6.Exit
Enter your choice: 2
Difference is: 10
Enter first number: 10
Enter second number: 5
1.Add  2.Subtract  3.Multiply
4.Divide  5.Exponent  6.Exit
Enter your choice: 3
Product is: 50
Enter first number: 10
Enter second number: 5
1.Add  2.Subtract  3.Multiply
4.Divide  5.Exponent  6.Exit
Enter your choice: 4
Quotient is: 2.0
Enter first number: 2
Enter second number: 4
1.Add  2.Subtract  3.Multiply
4.Divide  5.Exponent  6.Exit
Enter your choice: 5
Result: 16
```

#### Q5

```
The default box volume in cubic units is: 1

The volume of a box with length 10,
width 1 and height 1 in cubic units is: 10

The volume of a box with length 10,
width 5 and height 1 in cubic units is: 50

The volume of a box with length 10,
width 5 and height 2 in cubic units is: 100
```

#### Q6

```
Enter your name: Nabarun
Enter the number of subjects you like: 2
Enter subject name: Python
Enter subject name: DS Algo
Nabarun likes to read:
Python
DS Algo
```

#### Q7

```
Enter the principal amount: 10000
Enter the time period in years: 2
Press Y if you are a senior citizen and N if not Y
The principal is: 10000
The time period is: 2
The interest rate is: 12%
The Simple Interest is Rs 2400.0
```

#### Q8

```
Enter n:5
Enter r:3
Result: 60
```

#### Q9

```
Enter value of n: 5
Enter value of r: 3
Result: 10
```

#### Q10

```
Enter first number: 10
Enter second number: 12
Enter third number: 13
13 is the largest number.
```

#### Q11

```
Number of arguments: 0
The arguments are:
```