

Assignment Level :1

Q1: Write the Java program to print the following pyramid.

Input: n =5

Output:

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* * * *
* * * * *
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Q2: Write the Java program to print the following pyramid.

Input: n=5

Output:

```
  *
 * *
* * *
* * * *
* * * * *
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Q3: Write a simple Program to calculate the Simple Interest.

Q4: (a) Write a program to swap 2 numbers.
(b) Write a program to swap 3 numbers.

Q5: Write a program to Check if the given number is odd or even.

Q6: Write a program to separate the Whole number and Fraction value from double and store it in separate variables.

Example:

Input: 10.25

Output: 10 25

Q7: Write a Program to find the largest and second largest of 3 numbers.

Input: 10 5 25

Output: largest: 25

Second largest: 10

Q8: Write a program to calculate the sum of
(a) Odd numbers from 1- N.
(b) Even numbers from 0 – N.

Example:

Input: N= 10
Even sum = 30 (sum of even numbers 0,2,4,6,8,10)
Odd sum =25 (sum of odd numbers 1,3,5,7,9)

Q9: Write a program to reverse the number.

Input: 1234567890
Output: 0987654321

Q10: Write a program to display numbers in words.

Input: 12344
Output: One Two Three Four Four

Q11: Write a program to display the number in following sequence.
4, 16, 36, 64.....N

Q12: Write a program to display the number in following sequence.
-1, 2, -3, 4, -5.....N

Q13: Write a program to display the number in following sequence.
1, 4, 27, 256, 3125 N

Q14: Write a program to display the number in following sequence.
1, 4, 7, 12, 23 N

Q15: Write a program to display the number in following sequence.
1, 4, 9, 25, 36, 49N

Q16: Write a program to display the number in following sequence.
1, 5, 13, 29, 49, 77 N

Q17: Write a program to find the prime number between n and m.

Input: n = 12, m=15
Output: 13

Q18: Write a program to find the factorial of a given number.

Q19: Write a program to convert decimal number to binary.

Input: 100
Output: 1100100

Q20: Write a program to convert binary to decimal.

Input: 1100100

Output: 100

Q21: Write the program to print below mentioned series.

1, -2, 6, -15, 31, -56 N

Q22: Write the program to print below mentioned series. (Fibonacci)

1, 1, 2, 3, 5, 8, 13 N

Q23: Write the program to print below mentioned series.

1, -2, 4, -6, 7, -10, 10, -14N

Q24: Write the program to find the X to the power of n. (Without using inbuilt function)

Input: X = 2, n = 5

Output: 32

Q25: Write a program to reverse the String.

Input: Target

Output: tegrat

Q26: Write a program to check if the given String is palindrome or not.

Q27: Write a program to check Armstrong Number for 3 digit number.

Q28: Write the Program to check if the value is present in the array(Linear Search).

Q29: Write a program to check if the value is present in the sorted array (Binary Search).

Q30: Write a program to solve the given arithmetic expression.

Example:

Input: $5+5+(2*4)-(2/2)$

Output: 17