

LIST OF General Java PROGRAMES

Prepared by Srikanth Mamillapalli

1. W A P FOR area of Triangle ($1/2*a*b$)?
2. W A P For area of Rectangle?
3. W A P For area of Circle?
4. W A P For area of Square?
5. W A P For area of Rhombus?
6. W A P For area of Polygon?
7. W A P FOR Factorial of a given numbers?
8. W A P FOR first 20 factorial numbers 0 to 20?
9. W A P FOR Fibonacci series?
10. W A P FOR reverse of a given number are 531? O/p: 135.
11. W A P FOR given number is palindrome or not?
12. W A P FOR given number is perfect number or not?
13. W A P FOR given number is strong number or not?
14. W A P FOR given number is prime number or not?
15. W A P FOR given number is Armstrong number or not? EX : $153 = 1 + 125 + 27 = 153$
16. W A P FOR find the first 1000 perfect numbers?
17. W A P FOR find the first 1000 strong numbers?
18. W A P FOR find the first 1000 prime numbers?
19. W A P FOR find the first 1000 factorial numbers?
20. W A P FOR find the first 1000 palindrome numbers?
21. W A P FOR Factorial using Recursion?
22. W A P FOR prime number using Recursion?
23. W A P FOR perfect number using Recursion?
24. W A P FOR strong number using Recursion?
25. W A P FOR Fibonacci series using Recursion?
26. W A P FOR individual digits of a given number are 531? O/p: 5, 3, 1.
27. W A P FOR multiplication of individual digits of a given number 420? O/p: $4*2*0=0$.
28. W A P FOR sum of individual digits of a given number are 531? O/p: $5+3+1=9$.

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- 29. W A P FOR largest of 2 numbers?
- 30. W A P FOR largest of 3 numbers?
- 31. W A P FOR largest of 4 numbers?
- 32. W A P FOR largest of 3 numbers using Arithmetic and Relational Operator?
- 33. W A P FOR Smallest of 2 numbers?
- 34. W A P FOR Smallest of 3 numbers?
- 35. W A P FOR Smallest of 4 numbers?
- 36. W A P FOR multiplication table of a given number?
- 37. W A P FOR multiplication table of N number series?

EX: N=4 need to display 1st table, 2nd table, 3rd table, 4th table.

- 38. W A P FOR given number is even number or not?
- 39. W A P FOR given number is odd number or not?
- 40. W A P FOR given number is even number or not without using if?
- 41. W A P FOR given number is even number or not using Ternary operator?
- 42. W A P FOR given number is even number or not using switch?
- 43. W A P FOR Sum of even number series?
- 44. W A P FOR sum of odd number series?
- 45. W A P FOR sum of N number series?
- 46. W A P FOR Swapping of 2 numbers?
- 47. W A P FOR Swapping of 2 numbers without temp?
- 48. W A P FOR Swapping of 2 numbers with single statement?
- 49. W A P for loop display 1 to 10 numbers?
- 50. W A P for loop display 10 to 1 numbers?
- 51. W A P while loop display 1 to 10 numbers?
- 52. W A P while loop display 10 to 1 numbers?
- 53. W A P do....while loop display 1 to 10 numbers?
- 54. W A P do....while loop display 10 to 1 numbers?
- 55. W A P FOR sum series for following

1+2+3+.....+n=(n*(n+1))/2

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56. $1*1+2*2+3*3+-----+n*n=(n*(n+1)*(2*n+1))/6$

57. $1*1*1+2*2*2+3*3*3+-----+n*n*n=(n*n*(n+1)*(n+1))/4$

58. W A P a, a+d, a+2*d, a+3*d-----are in A.P?

Find out the nth term= $a+(n-1)*d$ and sum of n terms= $(n/2)*(2*a+(n-1)*d)$

59. W A P a , a*r, a*r*r, -----are in G.P

Find out the nth term ?

60. W A P FOR powers function without using pow() function?

61. W A P FOR find ncr value?

62. W A P FOR find ncr value?

63. W A P FOR square of a given number?

64. W A P FOR prints the following o/p? If give n=4.

Number	square	cube
1	1	1
2	4	8
3	9	27
4	16	64

65. W A P FOR prints the series of number which are divisible by 10 up to 200(n)?

i) We need to pass the N value in run time.

66. W A P FOR prints the numbers series from 1 to 7 and 0 to 7? o/p: 1,2,3,4,5,6,7 ::: 0,1,2,3,4,5,6,7.

67. W A P FOR prints the following series? O/p: 1,2,3,4,5,6,7,6,5,4,3,2,1.

68. W A P display the below pyramids using loops

```
1
2 3
4 5 6
7 8 9 10
```

69. 10 9 8 7

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6 5 4

3 2

1

70.

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75.

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76.

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                            *      *  
  
                        *      *      *  
  
                    *      *  
  
                                *
```

77.

```
1  2  3  4  5  4  3  2  1
```

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```
1  2  3  4      4  3  2  1
1  2  3          3  2  1
1  2            2  1
1              1
```

78.

```
1                      1
1  2                  2  1
1  2  3              3  2  1
1  2  3  4          4  3  2  1
1  2  3  4  5      4  3  2  1
```

79. 12 → 21

144 → 441

Rev(144)=441 W the logic of the program?

80. W A P FOR find out the series of above logic up to 1000?

81. W A P FOR second largest of given numbers?

82. W A P FOR given number 896? o/p prints the: eight nine six.

83. W A P to display the even number on words? Ex: 120 = One Twenty

84. W A P to display the even number on words? Ex: 12,531 = Twelve thousand and Five hundred and thirty one.

85. W A P FOR display and complete the following.

This are variable: Sno, sname, m1, m2, m3.

You need to enter the following and all these fields should be not null after that find out the grade.

75% → distinction

60%-- 74% → I class.

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45%-- 59% → II class.

35%--44% → III class.

0%---34% → fail.

86. W A P FOR LCM of two numbers?

87. W A P FOR convert a decimal to binary?

88. W A P FOR convert a binary to decimal?

89. W A P FOR convert a octal to decimal?

90. W A P FOR convert a decimal to octal?

91. W A P FOR convert a Hexadecimal to binary?

92. W A P FOR converts a decimal to hexadecimal?

93. W A P FOR find out a given number is positive, negative or neutral?

94. W A P FOR find out the power unit rate

1. House: → 1 unit: →3rs.
2. Shopping complex:→ 1unit: →14rs.
3. Software company: → 1unit: →24rs.

O/p:

Item	units	total price
House	20	60/-
Shopping complex	140	19600/-
Software company	1000	1,24,000/-

95. W A P FOR PASCAL TRIAANGLE?

96. W A P FOR increment operator?

a=1; a++; ++a; b=(a++)+(++a)+(++a)+(a++)-(a)+(a--)+(a++)+(++a)-(--a)+(++a); Sop(b);

97. W A P FOR Find out the elements in an array?

98. W A P FOR Sum of Array elements?

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99. W A P FOR addition of two arrays?
100. W A P FOR subtraction of two arrays?
101. W A P FOR Largest element in array?
102. W A P FOR Display elements in character array?
103. W A P FOR if we give an element in an array then find out the index values of that element?
104. W A P FOR sorting an array?
105. W A P FOR BUBBLE sort?
106. Find out the series?
 $1 + 1/x! + 1/x^2! + 1/x^3! + \dots \dots \dots n$ given n, x values are input evaluate the series.
107. $1 - 1/x! + 1/x^2! - 1/x^3! + \dots \dots \dots n$ given n, x values are input evaluate the series.
108. With The help of switch compute Arithmetic operation?
109. W A P FOR evaluates the SIN (TETA) series up to by given “TETA” value in degree?

Sin (), cos (), tan (), cot (), sec (), cosec ()::all degrees[0, 30, 45, 60, 90].
110. W A P FOR break, continue using for loop?
a) If(I == J) continue.
b) If(I == J) break.
111. W A P FOR given year is leap year or not?
112. W A P FOR find out the leap year list from the year 1960 to 2020?
113. W A P for display matrix elements?
114. W A P FOR Matrix addition?
115. W A P FOR matrix multiplication?
116. W A P FOR matrix subtraction?
117. W A P FOR matrix division (element in matrix should be not null)?
118. W A P FOR find out the index of matrix if we give elements in a matrix?
119. W A P to find the element for a given element index?
120. W A P for a given date display day of the week name?

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Please write a programs for the following

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Square Star Pattern

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Hollow Square Star Pattern with Diagonal

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Rhombus Star Pattern

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Hollow Rhombus Star Pattern

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Mirrored Rhombus Star Pattern

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Hollow Mirrored Rhombus Star Pattern

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Right Triangle Star Pattern

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Mirrored Right Triangle Star Pattern

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Hollow Right Triangle Star Pattern

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Hollow Mirrored Right Triangle Star Pattern

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Hollow Inverted Mirrored Right Triangle Star Pattern

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Hollow Inverted Right Triangle Star Pattern

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Inverted Right Triangle Star Pattern

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Inverted Mirrored Right Triangle Star Pattern

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Hollow Square Star Pattern

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```

Pyramid Star Pattern

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