

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

$$1+2+3+\dots+n = \frac{n(n+1)}{2}$$

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

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

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 fined ncp 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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74.

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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. $12 \rightarrow 21$

$144 \rightarrow 441$

$\text{Rev}(144)=441$ 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 iven number on words? Ex: 120 = One Twenty

84. W A P to display the iven 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% \rightarrow distinction

60%-- 74% \rightarrow 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 TRIANGLE?

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?
$$1 + \frac{1}{x!} + \frac{1}{x^2!} + \frac{1}{x^3!} + \dots \dots \dots n$$
 given n, x values are input evaluate the series.
107. $1 - \frac{1}{x!} + \frac{1}{x^2!} - \frac{1}{x^3!} + \dots \dots \dots n$ 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 fined out the index of matrix if we give elements in a matrix?
119. W A P t 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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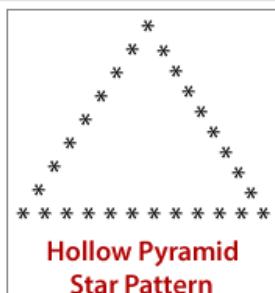
Hollow Square Star Pattern

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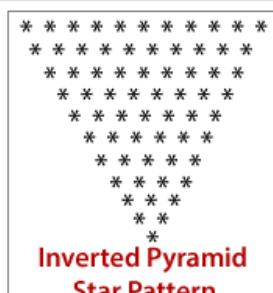
Pyramid Star Pattern

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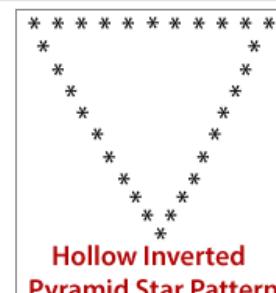
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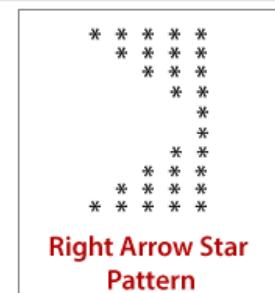
Hollow Pyramid
Star Pattern



Inverted Pyramid
Star Pattern



Hollow Inverted
Pyramid Star Pattern



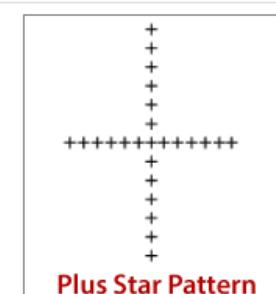
Right Arrow Star
Pattern



Half Diamond Star
Pattern



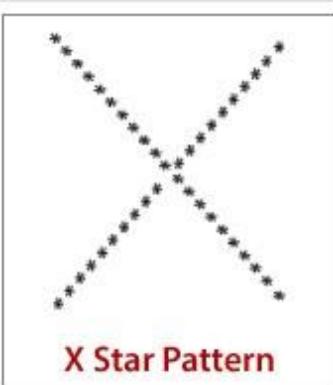
Left Arrow Star
Pattern



Plus Star Pattern



Diamond Star Pattern



X Star Pattern