Shell Script Problems

1. **Write a shell script to find whether an input integer is even or odd.**
   enter a number
   11
   Number is odd

2. **Write a shell script to find out the greatest among three inputs.**
   enter the value of a b c
   23
   33
   44
   c is greatest

3. **Write a shell script to calculate the net salary of an employee in a particular month considering various allowances (TA, DA, HRA) and deductions (INCOME TAX, PROVIDEND FUND) as:**
   (a) TA=15 percent of basic salary
   (b) DA=2 percent of basic salary
   (c) HRA=10 percent of basic salary
   (d) INCOME TAX=5 percent of salary
   (e) PROVIDEND FUND=10 percent of salary
   enter basic salary
   2240
   net salary is 2540

4. **A departmental store announces its festival scheme to customers on cash payment. The scheme is as follows-**
   (a) If purchase amount is less than 1000 then Tax=2% and discount=10%.
   (b) If purchase amount is greater than 1000 then Tax=5 % and discount=20%
   enter purchase amount
   3000
   cash payment =2550

5. **Write a shell script to perform an arithmetic operation upon two inputs. The operation should also be input by the user.**
   enter a and b

4
3
enter operation to be performed (+,-,*,/)
+
Result after performing operation on a and b is 7

6. **Write a shell script to find out the length of an input string.**
enter string
unix
 length of string = 4

7. **Write a shell script to find whether an input year is leap year or not.**
enter year
2008
 leap year

8. **Make a duplicate copy of a specified file through command-line.**
$./ex8.sh a1.txt a1.out
file to be copied : a1.txt
new file name : a1.out
copy successful

9. **Write a shell script to concatenate two strings input by the user.**
enter two string
Shell
Programming
After concatenate : Shell Programming

10. **Write a shell script to concatenate files.**

11. **Program for command-line parameter & special variable.**
$./ex11.sh a s d f g
the first parameter : a
the second parameter : s
the number of parameters are : 5
the parameters are : a s d f g

12. **Generate a table of an input integer.**
input number
4

4
8
12
16
20
24
28
32
36
40

13. **Write a shell script to print all the multiplication tables (up to 10) between two given numbers.**

enter lower limit
2
enter higher limit
4
Table of 2 is
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
2 * 10 = 20
Table of 3 is
3 * 1 = 3
3 * 2 = 6
3 * 3 = 9
3 * 4 = 12
3 * 5 = 15
3 * 6 = 18
3 * 7 = 21
3 * 8 = 24
3 * 9 = 27
3 * 10 = 30
Table of 4 is
4 * 1 = 4
4 * 2 = 8
 4 * 3 = 12

4 * 4 = 16
4 * 5 = 20
4 * 6 = 24
4 * 7 = 28
4 * 8 = 32
4 * 9 = 36
4 * 10 = 40

14. **Write a shell script to find out the ny , where n and y must be input by the user.**
enter a number
4
enter the power
2
16

15. **Write a shell script to find out the factorial of an input.**
enter the number
4
Factorial of 4 is 24

16. **Write a shell script to generate the series of even number from 0 to n. 0 2 4 n**
enter value of n
5
0 2 4

17. **Write a shell script to check whether an input is a prime or not.**
enter number
4
number is not prime
enter number
7
number is prime

18. **Write a shell script to generate the primes between two given numbers**
enter two numbers
22
2
3

5
7
11
13
17
19

19. **Write a shell script to find out the sum of series 1+2+3+.............n, where n is input by the user.**
enter value of n
12
Sum of series is 78

20. **Write a shell script to generate the series 2,4,6,8,............n, where n must be input by the user.**
enter value of n
21
2, 4, 6, 8, 10, 12, 14, 16, 18, 20