

FUNCTION ASSIGNMENT OF PYTHON LANGUAGE

CLASS : 12

General Question

1. Write a program to accept temperature in F^0 and change it in C^0 . Formula is $c=5*(f-32)/9$.
2. Write a program to accept temperature in C^0 and change it in F^0 . Formula is $f=9*c/5+32$.
3. Write a program to radius of a circle and print the area. Formula is $area = \pi r^2$
4. Receive purchase amount. Calculate discount @10% and discount price print it.
5. Receive principal amount, rate and time period. Calculate simple interest and print it. Formula: $p*r*t/100$.

Questions of if_else statement

6. Write a program to accept a year from user and print whether it is leap year or not.
7. Write a program with the help of nested if statement, which accept age and citizenship of a person and check that he/she is eligible for vote or not. Print the message accordingly, it means if age is less then print 'You are under age' and if he/she is not an Indian citizen then print the message 'You are not an Indian citizen'.
8. Write a program with the help of if_elif statement, which accept name, basic salary and designation of any person. Print the Grass Salary and Net Salary according to following table.
Grass Salary = HRA+TA+DA+BasicSalary

NetSalary = GrassSalary-(PF+EF)

<u>Designation</u>	<u>HRA(%)</u>	<u>TA(%)</u>	<u>DA(%)</u>	<u>PF(%)</u>	<u>EF(%)</u>
Director	20	60	10	12	8
Manager	15	50	8	10	7
Accountant	10	45	6	8	6
Clerk	5	40	4	6	5

Questions of Looping statement

9. Write a program to print your name 10 times.
10. Write a program to print 10 natural no.
11. Write a program to print the table of a no. given by the user.
12. Write a program to print the factorial of a no. given by the user.
13. Write a program which accept a no. and check it prime or not.
14. Wap to print all the even and odd no. between 1 to 50
15. Wap which accept two no. and print even no. between them.
16. Write a program to print the reverse of a given no.
17. Wap to check a no. that it is palindrome or not.
18. Wap to check a no. that it is ArmStrong or not.
19. Write a program to print the sum of the each digit of a given no.
20. Write a program to print all the prime no. between 1 to 100.
21. Wap which generate 10 term of Fibonacci series.

NESTED LOOP QUESTIONS

WAP to print the following pattern:–		
<pre> * ** *** **** ***** </pre>	<pre> ***** **** *** ** * </pre>	<pre> 1 1 2 1 2 3 1 2 3 4 1 2 3 4 5 </pre>
<pre> 5 4 3 2 1 4 3 2 1 3 2 1 2 1 1 </pre>	<pre> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 </pre>	<pre> 5 4 3 2 1 4 3 2 1 3 2 1 2 1 1 </pre>
<pre> 1 1 2 1 2 3 1 2 3 4 1 2 3 4 5 </pre>	<pre> * * * * * * * * * * * * </pre>	<pre> * * * * * * * * * * * * * * * * </pre>
<pre> 1 1 2 1 1 2 3 2 1 1 2 3 4 3 2 1 1 2 3 4 5 4 3 2 1 </pre>	<pre> A A B A B C A B C D A B C D E </pre>	<pre> A B B C C C D D D D E E E E E </pre>
<pre> A B C D E F G H I J K L M N O </pre>	<pre> 1234554321 1234 4321 123 321 12 21 1 1 </pre>	<pre> ABCDEDCBA ABCD DCBA ABC CBA AB BA A A </pre>
<pre> 0 1 0 0 1 0 1 0 1 0 0 1 0 1 0 </pre>	<pre> A A R A R V A R V I A R V I N A R V I N D </pre>	<pre> S T R I N G T R I N G S R I N G S T I N G S T R N G S T R I G S T R I N S T R I N G </pre>