|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1. Write a program in c# to check if a number is even or odd in c#? (input 2 output true, input 3 : output false) A number is called even if it is completely divisible by two and odd if it's not completely divisible by two. For example number 4 is even number because when you do 4/2 , remainder is 0 which means 4 is completely divisible by 2. On the other hand 5 is odd number because 5/2 will result in remainder as 1.  2. Write a program in c# to find out if a number is prime in c#? (input 7: output true , input 9 : output false) A number is called prime if it is divisible by either itself or 1. There are many algorithm to find prime numbers e.g. instead of dividing till number, division upto square root of number may be enough. Start from simplest one and than try to solve this problem with couple of different ways.  3. Write c# program to check if a number is palindrome in c#? ( 121 is palindrome, 321 is not) A number is called a palindrome if number is equal to reverse of number e.g. 121 is palindrome because reverse of 121 is 121 itself. On the other hand 321 is not palindrome because reverse of 321 is 123 which is not equal to 321.  4. How to find if a number is power of 2 in c#? (1,2, 4 power of 2, 3 is not) This is another interesting c# programming exercise. This program can be solved using different ways e.g. using arithmetic operator or by using bit shift operator.  5. Write program to sort an integer array without using API methods? Sorting questions are one of the integral part of programming questions. There are many sorting algorithm out there to sort any array in c# e.g. Bubble sort, Insertion sort, Selection sort or quick sort. Implementing sorting algorithm itself a good programming exercise in c#.  6. Write c# program to check if a number is Armstrong number or not? (input 153 output true,  123 output false) An Armstrong number of 3 digit is a number for which sum of cube of its digits are equal to number e.g. 371 is an Armstrong number because 3\*3\*3 + 7\*7\*7 + 1\*1\*1 = 371).  7. Write a program in c# to reverse any String without using StringBuffer? You can reverse String in various way in c# but two programming technique is used to do e.g. Iteration and Recursion.  8. Write a program in c# to print Fibonacci series up to given number? Write both iterative and recursive version. Fibonacci series a popular number series and very popular programming question in c#, in which number is equal to sum of previous two numbers, starting from third. Fibonacci series is also a good recursion exercise and often asked in Interviews as well. Try doing this exercise by using both Iteration e.g. loops and recursion.  9. Write a c# program to calculate factorial of an integer number ? Both iterative and recursive solution. Calculating Factorial is also a classic recursion exercise in programming. Since factorial is a recursive function, recursion becomes natural choice to solve this problem. You just need to remember formula for calculating factorial which is for n! its n\*(n-1)\*...1. here is one way to calculate Factorial in c# using recursion.  10. Print following structure in c#? This program is a good exercise for mastering loops e.g. for loop and while loop in c#. This also teaches you How to use break and continue statement with loops in c#. By the way you can print any character using API's in c#. \* \*\*\* \*\*\*\*\* \*\*\* \*  Regards, Upresh.  DISCLAIMER ========== This e-mail may contain privileged and confidential information which is the property of Persistent Systems Ltd. It is intended only for the use of the individual or entity to which it is addressed. If you are not the intended recipient, you are not |  | https://plus.google.com/_/focus/photos/public/AIbEiAIAAABDCLDjtuOe0IuqSCILdmNhcmRfcGhvdG8qKGE5NDI1OTNhMjg4NTAyYTM5MjJlZDhjYTEyOGViN2U5ODczMzJkNzgwAZBW3y0gJk4_yY0l2PWzw0KD2VUU?sz=24https://plus.google.com/_/focus/photos/public/AIbEiAIAAABECJmllZzdhPvv0QEiC3ZjYXJkX3Bob3RvKigzZWUyMzY4ZWU1MDkzODU2YTFhOThkZmM4ZjFkM2M5MDc4NzdmNTUxMAFt9Du2FjOMAnubSV8nS9ShfHf9xQ?sz=24  2 more   |  |  | | --- | --- | |  | Upresh Tikam | |  | |  |   Show details  Adshttps://mail.google.com/mail/images/cleardot.gif  https://mail.google.com/mail/images/cleardot.gifGoDaddy  Find New Customers Online  Rs. 109 Limited Time Domain Sale! Book Your Domain And Get Online Today.  [**Sikkim Manipal University**](http://www.googleadservices.com/pagead/aclk?sa=L&ai=C98hrAdmmUpaTOajhwQHvtoCoA6aajoAEnviTrGHAjbcBEAEgho-AAigFUIOVldX______wFg5dLmg7wOoAGylbf3A8gBAakCSDwq-E2NUT6oAwGqBJ4BT9B7WxJ4zuXPoaC8AL5sfT-vFqCgQbza1bcgrhpuo2yYyj9KZB2qtsDGAIHRvKYZkZZgm-wprvyZoXJMKcllUykchhSugPuHXkwWnT6iVZfDnKHcnohPxJsqxWE2iNlZNmxzyBePmpZltpJwNljmy3irIPBGIBICwq8e8VnNwGE4o8vunQj570O8a_eL46_nAcad45dNyOrXwz8NJISAB7bqyAg&num=1&sig=AOD64_25EK677W1hxqfF9iJsHawZhWiZiA&adurl=http://online.smude.edu.in/sikkim-manipal-university/%3Futm_source%3DGoogle%26utm_campaign%3DNew%2520-%2520Competitors%2520-%2520Anna%26utm_medium%3Dcpc%26utm_term%3DAnnamalai%2520univ%26Network%3D%7BSearch%7D%26utm_content%3D26096853006%26SiteTarget%3Dmail.google.com%26utm_adposition%3Dnone%26utm_matchtype%3D%26utm_devicemodel%3D)  Distance Education Programs from Students' Most Preferred University  [smude.edu.in/Admissions\_Open](http://www.googleadservices.com/pagead/aclk?sa=L&ai=C98hrAdmmUpaTOajhwQHvtoCoA6aajoAEnviTrGHAjbcBEAEgho-AAigFUIOVldX______wFg5dLmg7wOoAGylbf3A8gBAakCSDwq-E2NUT6oAwGqBJ4BT9B7WxJ4zuXPoaC8AL5sfT-vFqCgQbza1bcgrhpuo2yYyj9KZB2qtsDGAIHRvKYZkZZgm-wprvyZoXJMKcllUykchhSugPuHXkwWnT6iVZfDnKHcnohPxJsqxWE2iNlZNmxzyBePmpZltpJwNljmy3irIPBGIBICwq8e8VnNwGE4o8vunQj570O8a_eL46_nAcad45dNyOrXwz8NJISAB7bqyAg&num=1&sig=AOD64_25EK677W1hxqfF9iJsHawZhWiZiA&adurl=http://online.smude.edu.in/sikkim-manipal-university/%3Futm_source%3DGoogle%26utm_campaign%3DNew%2520-%2520Competitors%2520-%2520Anna%26utm_medium%3Dcpc%26utm_term%3DAnnamalai%2520univ%26Network%3D%7BSearch%7D%26utm_content%3D26096853006%26SiteTarget%3Dmail.google.com%26utm_adposition%3Dnone%26utm_matchtype%3D%26utm_devicemodel%3D)  [**Distance MBA From IGNOU**](http://www.googleadservices.com/pagead/aclk?sa=L&ai=CRNrcAdmmUpaTOajhwQHvtoCoA5r-wfAEgsKrxX_AjbcBEAIgho-AAigFUL_UsSdg5dLmg7wOoAGS3Lz2A8gBAakCSDwq-E2NUT6oAwGqBJ4BT9ALQ3Z9zubPoaC8AL5sfT-vFqCgQbza1bcgrhpuo2yYyj9KZB2qtsDGAIHRvKYZkZZgm-wprvyZoXJMKcllUykchhSugPuHXkwWnT6iVZfDnKHcnohPxJsqxWE2iNlZNmxzyBePmpZltqYuCEjmy3irIPBGIBICwq8e8VnNwGE4o8vunQj570O8a_eL46_nAcad45dNyOrXwzcsGIWAB9ajwwk&num=2&sig=AOD64_00QJvW5V5_PfzxcisdOaDSBfg3pQ&adurl=http://www.shiksha.com/customizedmmp/mmp/templateForm/331%3Futm_source%3Dgoogle%26utm_medium%3Dcpc%26utm_campaign%3DDistance%2520MBA-Content-Ignou%26utm_adgroup%3DDistance%2520MBA-Ignou%26utm_keyword%3Dignou%2520distance%2520mba%26match%3DBroad)  Register & Get Full Details On Dist MBA From IGNOU. Free Membership!  [www.shiksha.com/IGNOU+Distance+MBA](http://www.googleadservices.com/pagead/aclk?sa=L&ai=CRNrcAdmmUpaTOajhwQHvtoCoA5r-wfAEgsKrxX_AjbcBEAIgho-AAigFUL_UsSdg5dLmg7wOoAGS3Lz2A8gBAakCSDwq-E2NUT6oAwGqBJ4BT9ALQ3Z9zubPoaC8AL5sfT-vFqCgQbza1bcgrhpuo2yYyj9KZB2qtsDGAIHRvKYZkZZgm-wprvyZoXJMKcllUykchhSugPuHXkwWnT6iVZfDnKHcnohPxJsqxWE2iNlZNmxzyBePmpZltqYuCEjmy3irIPBGIBICwq8e8VnNwGE4o8vunQj570O8a_eL46_nAcad45dNyOrXwzcsGIWAB9ajwwk&num=2&sig=AOD64_00QJvW5V5_PfzxcisdOaDSBfg3pQ&adurl=http://www.shiksha.com/customizedmmp/mmp/templateForm/331%3Futm_source%3Dgoogle%26utm_medium%3Dcpc%26utm_campaign%3DDistance%2520MBA-Content-Ignou%26utm_adgroup%3DDistance%2520MBA-Ignou%26utm_keyword%3Dignou%2520distance%2520mba%26match%3DBroad)  [**Online Trading Schools**](http://www.googleadservices.com/pagead/aclk?sa=L&ai=CV6ruAdmmUpaTOajhwQHvtoCoA-XMt-cBjf3amRzAjbcBEAMgho-AAigFUJev4f75_____wFg5dLmg7wOoAHztIzbA8gBAakCSDwq-E2NUT6oAwGqBJsBT9AbUjV6zufPoaC8AL5sfT-vFqCgQbza1bcgrhpuo2yYyj9KZB2qtsDGAIHRvKYZkZZgm-wprvyZoXJMKcllUykchhSugPuHXkwWnT6iVZfDnKHcnohPxJsqxWE2iNlZNmxzyBfHmlJQHxgR_HrOy8VAy0fzzfm3HEL1KUPQwH7NoI8bnkwM7ENJaPd-4K8SAsZ44Je9zk-4JbaAB_XK8yQ&num=3&sig=AOD64_1bNnBGpm37HT411JyFFo2fsetW3g&adurl=http://www.tradingacademy.com/ptwmumbai/default.asp%3Flocation%3D60%26gid%3D0%26pagename%3DPTWMumbai%26campaignid%3D70140000000MIUT%26campaigncode%3DINWB4NA001210CDPEPR_Web_Banner2)  Online Trading Academy now offers free day trading workshops.  [tradingacademy.com/Mumbai](http://www.googleadservices.com/pagead/aclk?sa=L&ai=CV6ruAdmmUpaTOajhwQHvtoCoA-XMt-cBjf3amRzAjbcBEAMgho-AAigFUJev4f75_____wFg5dLmg7wOoAHztIzbA8gBAakCSDwq-E2NUT6oAwGqBJsBT9AbUjV6zufPoaC8AL5sfT-vFqCgQbza1bcgrhpuo2yYyj9KZB2qtsDGAIHRvKYZkZZgm-wprvyZoXJMKcllUykchhSugPuHXkwWnT6iVZfDnKHcnohPxJsqxWE2iNlZNmxzyBfHmlJQHxgR_HrOy8VAy0fzzfm3HEL1KUPQwH7NoI8bnkwM7ENJaPd-4K8SAsZ44Je9zk-4JbaAB_XK8yQ&num=3&sig=AOD64_1bNnBGpm37HT411JyFFo2fsetW3g&adurl=http://www.tradingacademy.com/ptwmumbai/default.asp%3Flocation%3D60%26gid%3D0%26pagename%3DPTWMumbai%26campaignid%3D70140000000MIUT%26campaigncode%3DINWB4NA001210CDPEPR_Web_Banner2)  [**Animation Film Making**](http://www.googleadservices.com/pagead/aclk?sa=L&ai=CMGG3AdmmUpaTOajhwQHvtoCoA-nPsdIE8Y-9nXSAiKH8URAEIIaPgAIoBVCl9qi0BmDl0uaDvA6gAYHssOYDyAEBqQJIPCr4TY1RPqgDAaoEpAFP0AsiIHrO4M-hoLwAvmx9P68WoKBBvNrVtyCuGm6jbJjKP0pkHaq2wMYAgdG8phmRlmCb7Cmu_JmhckwpyWVTKRyGFK6A-4deTBadPqJVl8OcodyeiE_EmyrFYTaI2Vk2bHPIF_eZli22JRH9eu7K8Pj_c4XLGFzE8x7CX5PGls57zgaeU_nvQ7xrs4vjr-cBxp3jl13I6sLGldL_jQIeXDRqmIAH55PPGQ&num=4&sig=AOD64_1JM3pDjc4k8bfmLVoYCkPf_n7Ipg&adurl=http://www.maacindia.com/d3d/d3dindex.aspx%3Fsource%3Dcthotkeywords)  Learn latest techniques of Digital Animation Film Making with MAAC  [www.maacindia.com](http://www.googleadservices.com/pagead/aclk?sa=L&ai=CMGG3AdmmUpaTOajhwQHvtoCoA-nPsdIE8Y-9nXSAiKH8URAEIIaPgAIoBVCl9qi0BmDl0uaDvA6gAYHssOYDyAEBqQJIPCr4TY1RPqgDAaoEpAFP0AsiIHrO4M-hoLwAvmx9P68WoKBBvNrVtyCuGm6jbJjKP0pkHaq2wMYAgdG8phmRlmCb7Cmu_JmhckwpyWVTKRyGFK6A-4deTBadPqJVl8OcodyeiE_EmyrFYTaI2Vk2bHPIF_eZli22JRH9eu7K8Pj_c4XLGFzE8x7CX5PGls57zgaeU_nvQ7xrs4vjr-cBxp3jl13I6sLGldL_jQIeXDRqmIAH55PPGQ&num=4&sig=AOD64_1JM3pDjc4k8bfmLVoYCkPf_n7Ipg&adurl=http://www.maacindia.com/d3d/d3dindex.aspx%3Fsource%3Dcthotkeywords)  [**Mba Institutes Bangalore**](http://www.googleadservices.com/pagead/aclk?sa=L&ai=Cyj8xAdmmUpaTOajhwQHvtoCoA_7JxL4EntC-8HbAjbcBEAUgho-AAigFUOLNvIEBYOXS5oO8DqAB0t2-2QPIAQGpAkg8KvhNjVE-qAMBqgSbAU_QCy17e87hz6GgvAC-bH0_rxagoEG82tW3IK4abqNsmMo_SmQdqrbAxgCB0bymGZGWYJvsKa78maFyTCnJZVMpHIYUroD7h15MFp0-olWXw5yh3J6IT8SbKsVhNojZWTZsc8gXx5pxMAkcEfx6zsvFQMtH8835txxC9SlD0MB-zaCPG55MDOxDSWj3fuCvEgLGeOCXvc4knmmygAeWosEm&num=5&sig=AOD64_0fMl-YPRBKPV711gd2DByNH-kqVg&adurl=http://ibsat.ibsindia.org/ibsat2013/ga/)  Admissions open for MBA 2014 Batch. 100% Placements. Register Online.  [admissions.ibsindia.org/2014](http://www.googleadservices.com/pagead/aclk?sa=L&ai=Cyj8xAdmmUpaTOajhwQHvtoCoA_7JxL4EntC-8HbAjbcBEAUgho-AAigFUOLNvIEBYOXS5oO8DqAB0t2-2QPIAQGpAkg8KvhNjVE-qAMBqgSbAU_QCy17e87hz6GgvAC-bH0_rxagoEG82tW3IK4abqNsmMo_SmQdqrbAxgCB0bymGZGWYJvsKa78maFyTCnJZVMpHIYUroD7h15MFp0-olWXw5yh3J6IT8SbKsVhNojZWTZsc8gXx5pxMAkcEfx6zsvFQMtH8835txxC9SlD0MB-zaCPG55MDOxDSWj3fuCvEgLGeOCXvc4knmmygAeWosEm&num=5&sig=AOD64_0fMl-YPRBKPV711gd2DByNH-kqVg&adurl=http://ibsat.ibsindia.org/ibsat2013/ga/) |

https://mail.google.com/mail/images/cleardot.gif

[Find New Customers Online](https://mail.google.com/mail/?shva=1#ad/119200/CLm-kaampbsCFWIKTAodFXsAAA/cv_p)