

SIMATS | Saveetha School of Engineering

Questions
CEQ1.

Write a program to reverse a word using loop(Not to use inbuilt functions).

Sample Input:
String: TEMPLE
Sample Output:
Reverse String: ELPNET

1. SIGN UP
2. AT LEAST
3. 1245
4. !@#\$%
5. 145*999=144855

C Run Save Logout Your Input Goes Here...!!!

```
1. #include <stdio.h>
2.
3. int main()
4. {
5.     char word[100];
6.     int length, i;

7.     printf("Enter a word: ");
8.     scanf("%s", word);
9.     length = strlen(word);
10.    for(i = length - 1; i >= 0; i--) {
11.        printf("%c", word[i]);
12.    }
13.

14.    return 0;
}
```

172.18.50.8 says
Attention: You have either minimized or opened another tab it is recorded

OK

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CEQ01
CEQ010
CEQ011
CEQ012
CEQ13
CEQ14
CEQ15
CEQ16
CEQ17
CEQ18

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Questions
CEQ10.

Write a program to print the numbers from M to N by skipping K numbers in between?

Sample Input:
M = 50
N = 100
K = 7

Sample Output:
50, 58, 66, 74, ...

Test Cases

1. M = 15, N = 05, K = 02
2. M = 25, N = 50, K = 04
3. M = 15, N = 100, K = -02
4. M = 0, N = 0, K = 2
5. M = 200, N = 200, K = 50

C Run Save Logout

```
1. #include<stdio.h>
2.
3. int main() {
4.     int m, n, k, i;
5.

6.     printf("Enter the value of M:");
7.     scanf("%d",&m);
8.     printf("Enter the value of N:");
9.     scanf("%d",&n);
10.    printf("Enter the value of K:");
11.    scanf("%d",&k);

12.    for (i = m; i <= n; i += k + 1) {
13.        printf("%d ", i);
14.    }
15.

16.    return 0;
}
```

50
100
7

<pre>ExecutionFolder/192211361.c: In function ‘main’</pre>

172.18.50.8 says
Attention: You have either minimized or opened another tab it is recorded

OK

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Questions
CEQ11.
Write a program for matrix addition?

Sample Input:
Mat1 = 1 2
5 3
Mat2 = 2 3
4 1

Sample Output:
Mat Sum = 3 5
9 4

C Run Save Test Cases Logout

```
1. #include <stdio.h>
2.
3. int main() {
4.     int mat1[2] [2]={ {1,2}, {5,3} };
5.     int rows = 2;
6.     int cols =2;

7.     int mat_sum[rows][cols];

8.     //one-liner nested loop to add matrices
9.     for (int i=0; i < rows; i++) for (int j=0; j < cols; j++) printf("%d", mat1[i][j]+ mat2[i][j]);
10.    return 0;
11. }
```

Your Input Goes Here...!!!

<pre>ExecutionFolder/192211361.c: In function 'main':

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Questions
CEQ12.
Write a program to print rectangle symbol pattern.
Get the symbol as input from user.

C Run Save Test Cases Logout

```
1. #includes<stdio.h>
2.
3. int main() {
4.     int rows , cols , i, j;
5.

6.     printf("Entre rows and columns of rectangle\n");
7.     scanf("%d %d" , &rows , &cols);

8.     /* Row iterator for loop */
9.     for(i = 0; i < rows ; i++){
10.        /* Column iterator for loop */
11.        for( j = 0; j < cols; j++){
12.            printf("#");
13.        }
14.        printf ("\n");
15.    }
16.    return 0;
17. }
```

Your Input Goes Here...!!!

<pre>ExecutionFolder/192211361.c:1:2:
error: invalid preprocessing directive

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Test Cases

CEQ15.

Questions

Write a program to print the following pattern

Sample Input:
Enter the number to be printed: 1
Max Number of time printed: 3

```
1  
1 1  
1 1 1  
1
```

C Run Save Logout

```
1. #include <stdio.h>  
2.  
3. int main() {  
4.     int num, max_times;  
5.  
    // Get input from user  
  
    printf("Enter the number to be printed: ");  
    scanf("%d", &num);  
    printf("Max Number of times printed: ");  
    scanf("%d", &max_times);  
  
    // Loop to print the pattern  
    for (int i = 1; i <= max_times; i++) {  
        if (i == 1) {  
            printf("%d", num);  
        } else {  
            for (int j = 1; j < i; j++) {  
                printf(" %d", num);  
            }  
            printf("\n");  
        }  
    }  
}
```

1
3

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Test Cases

CEQ16.

Questions

Write a program to print the special characters separately and print number of Special characters in the line?

Please Enter your Own String : abc!@ 12 cd 1212

Total Number of Alphabets in this String : 5
Total Number of Digits in this String : 6
Total Number of Special Characters in this String : 5

C Run Save Logout

```
1. #include <stdio.h>  
2. #include <ctype.h>  
3.  
4. int main() {  
5.     char string[100];  
    int special_count = 0;  
  
    // Get input string from user  
    printf("please Enter your Own String: ");  
    fgets(string, 100, stdin);  
  
    //Loop through each character in the string  
    for (int i = 0; string[i] != '\0'; i++) {  
        // Check if character is a special character  
        if (!isalnum(string[i]) && string[i] != ' ') {  
            special_count++;  
        }  
    }  
}
```

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Questions
CEQ17.

Write a program to print all the composite numbers between a and b?

Sample Input:
A = 12
B = 19

Sample Output:
14, 15, 16, 18

Test Cases

1. A = 11, B = 11
2. A = 20, B = 10
3. A = 0, B = 0
4. A = -5, B = 5
5. A = 7, B = -12

C Run Save Logout Your Input Goes Here...!!!

```
1. #include<stdio.h>
2. int main()
3. {
4.     int i;
5.     for(i=12;i<19;i++)
6.     if(i%2==0)
7.     {
8.         printf("%d\n",i);
9.     }
10.    return 0;
11. }
```

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Questions
CEQ18.

Write a program to print the Inverted Full Pyramid pattern?

Test Cases

CEQ1, CEQ10, CEQ11, CEQ12, CEQ13, CEQ14, CEQ15, CEQ16, CEQ17, CEQ18

C Run Save Logout

```
1. #include<stdio.h>
2. int main()
3. {
4.     int n, i, j;
5.     printf("Enter the number of rows:");
6.     scanf("%d", &n);
7.     for (i = n; i>= 1; i--)
8.     {
9.         for (j = 1; j<= n - i; j++)
10.        {
11.            printf(" ");
12.        }
13.        for (j = 1; j<= 2*i-1; j++)
14.        {
15.            printf("*");
16.        }
17.        printf("\n");
18.    }
19. }
```

5

Enter the number of rows:*****

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