

3) Write a C/ Java program to accept nos n from the user and print n rows of output as given below if n=4.

1  
2 3  
4 5 6  
7 8 9 10

Ans) #include < stdio.h >

int main()

{

int n,i,j,count = 0;

printf ("Enter the no. of rows: ");

scanf ("%d", &n);

for ( i = 1; i <= n; i++ )

{

printf ("\n");

for ( j = i; j <= i; j++ )

{

count ++;

printf ("%d\t", count);

y

y

return 0;

}

4) #include <stdio.h>

int main ()

{

float ciemarks, secmarks;  
char grade;

cie

print f ("Enter marks : ");  
scanf ("%f,%f", &ciemarks, &secmarks);

if (ciemarks <= 50)

{

if (ciemarks <= 50 & & ciemarks >= 45)

{ grade = 'A'; }

else if ( ciemarks < 45 & & ciemarks >= 40 )

{ grade = 'B'; }

else if ( ciemarks < 40 & & ciemarks >= 35 )

{ grade = 'C'; }

else if ( ciemarks < 35 & & ciemarks >= 30 )

{ grade = 'D'; }

else if ( ciemarks < 30 & & ciemarks >= 25 )

{ grade = 'E'; }

else if ( ciemarks < 25 )

{ grade = 'F'; }

}

```
printf("Your grade = '%c', grade);  
    }  
else if
```

```
    printf("Enter valid marks\n");  
}
```

```
printf("Enter seemarks : ");  
scanf("%f", &seemarks);
```

```
if ( seemarks <= 100 )
```

```
{ grade = 'A'; }
```

```
else if ( seemarks <= 90 && seemarks >= 80 )
```

```
{ grade = 'B'; }
```

```
else if ( seemarks < 80 && seemarks >= 70 )
```

```
{ grade = 'C'; }
```

```
else if ( seemarks < 70 && seemarks >= 60 )
```

```
{ grade = 'D'; }
```

```
else if ( seemarks < 60 && seemarks >= 50 )
```

```
{ grade = 'E'; }
```

```
else if ( seemarks < 50 && seemarks >= 40 )
```

```
{ grade = 'F'; }
```

```
else
```

```
{ grade = 'F'; }
```

```
printf("The grade of your see marks  
= %.c", grade);
```

```
else
```

```
{ printf("your marks are invalid\n"); }
```

```
return 0;
```

```
/* C++ program to calculate grade based on marks */
```

```
/* If marks >= 90, grade = A */
```

```
/* If marks < 90 & >= 80, grade = B */
```

```
/* If marks < 80 & >= 70, grade = C */
```

```
/* If marks < 70 & >= 60, grade = D */
```

```
/* If marks < 60 & >= 50, grade = E */
```

```
/* If marks < 50, grade = F */
```

```
(A, B, C, D, E, F) using if-else condition and switch case statement
```

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(A, B, C, D, E, F) using if-else condition and switch case statement
```

5) #include <stdio.h>  
 int main()

{

int low, high, i, flag;

printf ("Enter the two numbers : ");

scanf ("%d %d", &low, &high);

printf ("Prime nos between %d & %d are:",

low, high);

while ( low < high )

{

flag = 0;

if ( low <= 1 )

{

low ++;

continue

{

for ( i = 2; i <= low / 2; ++i )

{

if ( low % i == 0 )

{ flag = 1;

break;

{

{

if ( flag == 0 )

printf ("%d", low);

++low;

{

return 0;

*Lepidoblatta shubani* sp.  
(dotted) *L. shubani* sp.

(1) Asian Art

(sooth) Rhythm

has written a letter to the King.

at Herkules 10, 10

~~Field notes, author's~~, "1919-1920" (cont'd.)

$$\text{Geschwindigkeit} \times (1.8 \times 2) = \text{Kilometer}$$

W. H. G. K. H. E. A. S. J. +

links) è visibile x 141.8 ). = 3000

~~Closed~~

卷之三

number will often "catch  
a bullet," as it were?

```
6) # include <stdio.h>
    # include <math.h>
```

```
int main ()
```

```
{  
    int choice ; radius, height  
    float area, volume ; radius, height ;  
    print f (" Enter 1 for cylinder \n " ) ;  
    print f (" Enter 2 for sphere \n " ) ;  
    print f (" Enter 3 for cone \n " ) ;  
    print f (" Enter your choice : \n " ) ;  
    scanf ("% .1d" , &choice ) ;
```

```
switch (choice)
```

```
{
```

```
    case 1 :
```

```
        print f (" Enter the radius and height  
        of the cylinder \n " ) ;  
        scanf ("% .1f" / "% .1f" , &radius , &height ) ;  
        area = ( 2 * 3.14 * radius * height )  
            + ( 2 * 3.14 * radius * radius )
```

```
        volume = ( 3.14 * radius * radius * height )  
        break ;
```

```
Case 2 :
```

```
    print f (" Enter the radius of sphere \n " ) ;  
    scanf ("% .1f" , &radius ) ;
```

```
    area = 4 * 3.14 * radius * radius ;
```

```
    volume = (  $\frac{4}{3}$  ) * 3.14 * radius * radius *  
            radius ;
```

break;

case 3 :

printf (" Enter the height and radius of  
cone \n" );

scanf ("%f %f", & height, & radius);

area =  $3.14 \times \text{radius} (\text{radius} + \sqrt{\text{radius} \times \text{radius}}$   
 $+ \text{height} \times \text{height})$

volume =  $(1/3) \times (3.14) \times \text{radius} \times \text{radius} \times \text{height}$ ,

printf (" The area = %.3f ", area);

printf (" The volume = %.3f ", volume);

return 0

}