

Q3

```
#include <stdio.h>
int main() {
```

```
    int n;
    scanf("%d", &n);
```

```
    int num = 1;
```

```
    for (int i = 0; i < n; i++) {
        for (int j = 0; j < i + 1; j++) {
            printf("%d", num);
            num++;
        }
        printf("\n");
    }
    return 0;
```

```
}
```

Q4

#include <stdio.h>

int main() {

int cie_marks;

int see_marks;

float marks;

printf("Enter CIE Marks: ");

scanf("%d", &cie_marks);

printf("Enter SEE marks");

scanf("%d", &see_marks);

marks = cie_marks + (float)(see_marks/2);

printf("Grade Scored: ");

if (marks >= 90) {

printf("S\n");

}

else if (marks >= 80)

printf("A\n");

else if (marks >= 70)

printf("B\n");

else if (marks >= 60) {

printf("C\n");

else if (marks >= 50)

printf("D\n");

else if (marks >= 40)

printf("E\n");

else

printf("F\n");

return 0;

}

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#include < stdio.h >

#include < math.h >

```
void cal - cone ( float r, float h ) {  
    float a, v; // a for area, v -> volume  
    a = (3.14) * r * ( r + sqrt(h*h + r*r) );  
    v = ((3.14) * r * r * h) / 3;  
    printf("Area = %.f & volume = %.f", a, v);  
}
```

```
void cal - cylinder ( float r, float h ) {  
    float a, v;  
    a = 2 * 3.14 * r * (h + r);  
    v = 3.14 * r * r * h;  
    printf("Area = %.f , vol = %.f", a, v);  
}
```

```
void cal - sphere ( float r ) {  
    float a, v;  
    a = 4 * 3.14 * r * r;  
    v = (4 * 3.14 * r * r * r) / 3;  
    printf("Area = %.f , Vol = %.f", a, v);  
}
```

```
int main() {  
    float radius;  
    float height;  
    float int choice;
```

```
    printf("Input your selection of shape:\n");  
    printf("1. cone\n 2. cylinder\n 3. sphere\n");  
    scanf("%d", &choice);
```

```
switch(choice) {
```

```
    case 1 :
```

```
        printf("Enter radius & height:");  
        scanf("%f", &radius);  
        cal-cone(radius, height);  
        break;
```

```
    case 2 :
```

```
        printf("Enter radius & height");  
        scanf("%f %f", &radius, &height);  
        cal-cylinder(radius, height);  
        break;
```

```
    case 3 :
```

```
        printf("Enter radius:");  
        scanf("%f", &radius);  
        cal-sphere(radius);  
        break;
```

```
    }  
    return 0;
```

```
}
```


Q6

#include <stdio.h>

void findPrimes(int a, int b) {

int j = 2

int flag;

if (a == 1 || a == 0) {
a = 2;

if (b > 2)

printf("2 ");

}

for (int i = a + 1; i < b; i = i + 2) {

flag = 1;

for (int j = 2; j <= i / 2; j++) {

if (i % j == 0) {

flag = 0;

break;

}

}

if (flag == 1)

printf("%d ", i);

}

}

int main() {

int num1, num2;

printf("Enter both the numbers");

scanf("%d %d", &num1, &num2);

findPrimes(num1, num2);

return 0;

}