

Expt. No. _____

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ABM19CS107

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B3

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3. #include <stdio.h>
int main()
{
    int i, j, c=0, n;
    printf("Enter the rows\n");
    scanf("%d", &n);
    for (i=1; i<=n; i++)
    {
        for (j=1; j<=i; j++)
        {
            c=c+1;
            printf("  %d", c);
        }
        printf("\n");
    }
}
```

4. #include <stdio.h>

int main()

{

float m, n, total;

char s;

printf("Enter student name\n");

scanf("%s", &s);

printf("Enter CIE marks out of 50\n");

scanf("%f", &m);

printf("Enter SEE marks out of 100\n");

scanf("%f", &n);

total = m + (n/2);

if (total >= 90 && total <= 100)

printf("s grade");

else if (total >= 80 && total < 90)

printf("a grade");

else if (total >= 70 && total < 80)

printf("b grade");

else if (total >= 60 && total < 70)

printf("c grade");

else if (total >= 50 && total < 60)

printf("d grade");

else if (total >= 40 && total < 50)

printf("e grade");

else

printf("f grade");

}

```
5. #include <stdio.h>

int main()
{
    int n1, n2, count, i, j;
    printf("Enter range\n");
    scanf("%d %d", &n1, &n2);
    printf("prime numbers from %d to %d : \n", n1, n2);
    for(i = n1 + 1; i < n2; i++)
    {
        count = 0;
        for(j = 2; j <= i/2; j++)
        {
            if(i % j == 0)
            {
                count = 1;
                break;
            }
        }
        if(count == 0)
            printf("%d\n", i);
    }
}
```

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6. #include <stdio.h>
#include <math.h>
int main()
{
    float a, v, r, h, pi = 3.14;
    int c = 4;
    printf("Enter the choice\n");
    printf("1 - cylinder\n 2 - cone\n 3 - sphere\n");
    scanf("%d", &c);

    switch(c)
    {
        case 1:
            printf("Enter r and h\n");
            scanf("%f %f", &r, &h);
            a = (2 * pi * r * h) + (2 * pi * r * r);
            v = pi * r * r * h;

            printf("area of cylinder = %f\n", a);
            printf("volume of cylinder = %f\n", v);
            break;

        case 2:
            printf("Enter r and h\n");
            scanf("%d %f", &r, &h);
            a = (pi * r * (r + sqrt((h * h) + (r * r))));
            v = (pi * r * r * h) / 3;

            printf("area of cone = %f\n", a);
            printf("vol of cone = %f\n", v);
            break;

        case 3:
            printf("enter r\n");
            scanf("%f", &r);
            a = 4 * pi * r * r;
            v = (4 * pi * r * r) / 3;

            printf("area of sphere = %f\n", a);
            printf("vol of sphere = %f\n", v);
            break;
    }
}

```