PATTERN

1BM19CS042
Darshan Nagthongjam

```
#include<stdio.h>
#include<conio.h>
void main()
{
 int i, j, n, c=1;
 printf("enter the order\n");
  scanf("%d",&n);
 for(i=1; i<=n; i++)
  {
    for(j=1; j<=n; j++)
    {
      if(j<=i)
      {
      printf("%d\t",c);
      c=c+1;
      }
      else
      printf("\n");
      }
    printf("\n");
    }
  getch();
 }
```

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GRADE

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

void main()
{
 int C,S;
 float AVG;
 printf("enter CIE marks\n");
 scanf("%d",&C);
 printf("enter SEE marks\n");
 scanf("%d",&S);
 while(C>=0 && C<=50 && S>=0 && S<=100)
  {
    AVG=C+(S/2);
    if(AVG>=90)
    {
    printf("Grade is A");
    break;
    }
    else if(AVG>=80 && AVG<=90)
    {
    printf("Grade is B");
    break;
    }
    else if(AVG>=70 && AVG<=80)
    {
     printf("Grade is C");
     break;
    }
```

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```
else if (AVG>=60 && AVG<=50)
  {
  printf ("Grade is D");
   break;
    }
  else
   {
   printf ("Grade is E");
    break;
     }
  }
  getch();
  }
```

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PRIME

```
#include <stdio.h>
#include <stdlib.h>
void main()
 {
    int n1, n2, i, j, flag, temp; ~~count=0;~~
  printf("Enter the value of num1 and num2\n");
  scanf("%d%d", &n1, &n2);
  if (n2<2)
   {
    printf("There are no primes upto %d\n", n2);
    exit(0);
   }
  printf("Prime numbers are\n");
   temp= n1;
   if (n1%2==0)
   {
     n1++;
   }
  for(i=n1; i<=n2; i=i+2)
   {
      flag=0;
     for(j=2; j<=i/2; j++)
     {
        if((i%j)==0)
        {
          flag=1;
          break;
```

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```
        }
    }.
    if (flag==0)
    {
      printf("%d\n",i);
      count.
    }
  }
getch();
}
```

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AREA AND VOLUME

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
{
 int c, r, h, result;
 char option;
 float A, V;
 do
 {
  printf("AREA & VOLUME \n");
  printf(" 1 for cylinder \n");
  printf(" 2 for cone \n");
  printf (" 3 for sphere \n");
  printf ("enter choices of shape \n");
   scanf ("%d",&c);
  printf ("enter radius \n");
  scanf ("%d", &r);
  if (c==1 || c==2)
    {
     printf ("enter height \n");
     scanf("%d", &h);
    }
  switch (c)
    {
```

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```
case 1 : A=(2*(3.14)*r*h)+(2*(3.14)*r*r);
         V=(3.14)*r*r*h;
         printf("area is %f & volume is %f",A,V);
         break;
case 2 : A=((3.14)*r*(r+sqrt(h*h+r*r)));
         V=((3.14)*r*r*h)/3;
         printf("area is %f & volume is %f", A, V);
         break;
case 3 : A=(4*3.14*r*r);
         V=((3.14)*r*r*r*4)/3;
         printf("area is % & volume is %f", A, V);
         break;
  default : printf("wrong input \n");
 }
printf("do you want to continue? (Y/n) \n");
 option = getche();
} while (option == 'y' || option == 'Y');
getch();
}
```

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