3.

SARASWATHI.B
IBM19CS032

```
#include<stdio.h>
int main()
{
int i, j, count=1, n;
Printf("\n Enter the value of n: ");
Scanf("%d",&n);
for(i=1; i<=n; i++)
{
 Printf("\n");
 for(j=1; j<=i ; j++)
 Printf("%d  ",count++);
 }
return 0;
}
```


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4.

```
#include<stdio.h>
int main()
{
int m1,m2,m3,total=0;
Printf("\n Enter the marks obtained in
CIE (out of 50): ");
scanf("%d",&m2);
Printf("\n Enter the marks obtained in
SEE (out of 100): ");
scanf("%d",&m2);
m3= m2/2;
total= m1+m3;
if( total >=90)
{
 Printf("\n Sgrade");
}
else if( total>=80)
{
 Printf("\n A grade");
}
else if( total >= 70)
{
Printf("\n B grade");
}
```

```
else if (total >=60)
{
Printf("\n  C grade");
}
else if (total >= 50)
{
Printf ("\n  D grade");
}
else if (total >=40)
{
Printf("\n E grade");
}
else
{
 Printf ("\n FAIL");
}
 return 0;
}
```

5.
```
#include<stdio.h>
void main()
{
int num1, num2, num, i, c;
Printf("\n Enter the starting number of
range: ");
scanf("%d", &num1);
Printf("\n Enter the ending number of
range: ");
scanf("%d", &num2);
Printf("\n The prime numbers between %d
and %d are: ", num1, num2);
for(num = num1; num<=num2; num++)
{
  c=0;
  for(i=2; i<=num/2; i++)
  {
if (num%i==0){
 c++;
break;
}
}
```

```
if (c == 0 && num != 1)
 Printf ("%d ", num);
}
Printf ("\n");
}
```


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6.
```
#include <stdio.h>
#include < math.h>
int main()
{
 int choice;
 const float pi= 3.14;
 float area ,volume;
 int r1, r2, r3;
 int h1, h2;
 char ch;
 do
 {
 Printf ("\n Select your choice from options
 given below: \n");
 Printf (" 1.Cylinder \n 2. cone\n 3. sphere \n");
 scanf ("%.d", &choice);
 Printf("\n Enter the radius: ");
 scanf("%.d", &r1);
 PrintF ("\n Enter the height: ");
 scanf("%.d", &h1);
 switch (choice )
 {
```

```
case 1:
Printf (" FOr cylinder : \n");
area = ((2 * pi * r1 * h1) + ( 2 * pi * r1 * r1));
Volume= (pi * r1 * r1 * h1);
Printf (" Area of cylinder = %.f \n", area );
Printf (" Volume of cylinder = %.f \n", volume);
 break;

case 2:
Printf (" FOr cone : \n");
area= ((pi * 12) * (r1 + (sqrt ((h1 * h2) + (r1 * r1)))));
Volume= ( pi * r1 * r1 * h1) / 3;
Printf(" Area of cone = %.f \n", area);
Printf(" Volume of cone = %f \n", volume);
break;

Case 3:
Printf(" For sphere: \n");
area = 4 * pi * r1 * r1 * r1;
Volume = ((4/3) * pi * r1 * r1 * r1);
Printf(" Area of sphere = %.f \n", area);
Printf (" Volume of sphere = %.f \n", Volume);
break;
```

```
default:
Printf ("Please input correct choice : \n");
break;
}
Printf("TO continue press y:\n");
Scanf("%s", &ch);
}
while (ch=='y'|| ch=='Y');
}
```


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