Week - 2

4].

```
#include<stdio.h>
void main
{ int a, b, c, d, e, A1, A;
  int m1, m2, m3, m4, m5, total1;
  int n1, n2, n3, n4, n5, total2;
  printf("Enter the marks of subject 1 in CIE & SEE");
  scanf("%d %d", &m1, &n1);
  printf("Enter the marks of subject 2 in CIE & SEE");
  scanf("%d %d", &m2, &n2);
  printf("Enter the marks of subject 3 in CIE & SEE");
  scanf("%d %d", &m3, &n3);
  printf("Enter the marks of subject 4 in CIE & SEE");
  scanf("%d %d", &m4, &n4);
  printf("Enter the marks of subject 5 in CIE & SEE");
  scanf("%d %d", &m5, &n5);
  printf("The max. marks is 50 & SEE is 100");
total1 = m1 + m2 + m3 + m4 + m5;
total2 = n1 + n2 + n3 + n4 + n5;
total3 = total2/2;
a = m1+(n1/2);
b = m2 + (n2/2);
c = m3 + (n3/2);
d = m4 + (n4/2);
e = m5 + (n5/2);
A1 = a+b+c+d+e;
A1 = (A/500)*100;
if (A1>= 90)
  printf("The Grade of student in Exam is: A\n");
else if (A1>= 75 && A1< 90)
  printf("The Grade of student in Exam is: B\n");
```

```
else if (AI >= 55 && AI < 75)
printf("The Grade of student in Exam is: C \n");
else if (AI >= 35 && AI < 55)
printf("The Grade of student in Exam is: D \n");
else
  printf("The Grade of student in Exam is: E \n");
```

5]

```
# include <stdio.h>
void main()
{
  int a, b, i, j, flag;
  printf("Enter the 1st integer \n");
  Scanf("%d", &m);
  printf("Enter the 2nd integer \n");
  Scanf("%d", &n);
  printf("Prime numbers b/w %d and %d are: ", a, b);
  for (i=a; i<=b; i++)
  {
    if (i==1 || i==0)
      continue;
    flag = 1;
    for (j=2; j<=i/2; ++j)
      if (i%j == 0)
      {
        flag = 0;
        break;
      }
    if (flag == 1)
      printf("%d", i);
  }
```

6].

```
#include <stdio.h>
#include <math.h>
void main()
{ float A, V, r, h;
  int opt;
  pi = 3.142;
  printf("Enter the radius and height \n");
  scanf("%f %f", &r, &h);
  printf("\n1- Cylinder\n2- Cone\n3- Sphere\n4- exit\n");
  scanf("%d", &opt);
 switch(opt)
 {
  case 1:
    A = (2*pi*r*h) + (2*pi*r*r);
    V = pi*r*r*h;
  printf("Area and volume of cylinder are: %d
                     and %d", A, V);
   break;
  case 2:
    A = pi*r(r + sqrt(h*h + r*r));
    V = (pi* r* r*h)/3;
  printf("Area and volume of cone are:
                 %d and %d", A,V);
  break;
  case 3:
     A = 4*pi*r*r;   V = (4/3)*pi*r*r*r;
  printf("Area and volume of sphere are:
                 %d and %d", A, V);
   break;
```

Scanned with CamScanner

```
    case 4:
        break;
    default:
        printf("Invalid option\n");
        break;
    }
}
```

3].
```
#include<stdio.h>
void main()
{
    int rows=4, n=1, i, j;
    for(i=1; i<=rows; i++)
    {
        for(j=1; j<i; j++)
        printf("%d", n++);
        printf("\n");
    }
}
```