OOJ - WEEK-2

PROGRAMS

3] PROGRAM --3

```
#include<stdio.h>
int main(){
    int rows, i, j, number=4;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for(i=4; i<=rows; i++){
        for(j=4; j<=4; j++){
            printf("%d", number);
            ++number;
        }
        printf("\n");
    }
    return 0;
}
```

4] PROGRAM --4

```
#include<stdio.h>
int main()
{
    int CIE, SEE;
    float tot;
    printf("Enter the CIE(50) and SEE(100) marks of the student
                                    respectively \n");

    scanf("%d %d", &CIE, &SEE);
    tot=(SEE/2.0)+CIE;
    if(CIE>=20 && SEE>=40)
```

```
{
  if (tot>89 && tot<=100):
  printf ("Grade :S");
  else if (tot>79 && tot<=89)
  printf ("Grade : A");
   else if (tot>69 && tot<=79)
    printf ("Grade : B");
    else if (tot>59 && tot<=69)
    printf ("Grade : C");
     else if (tot>49 && tot<=59)
      printf ("Grade : D");
      else
      printf ("Grade : E");
    }
    else if (CIE>=20 && SEE<40)
     printf ("Grade : F");
     else
    printf ("Not eligible, grade not applicable");
   }
```

5] PROGRAM--5

```
#include <stdio.h>
int main()
{
   int low, high, n;
    int count;
    int div;
    printf ("Enter the start number of the range: \n");
    scanf ("%d", &low);
    printf ("Enter the end number of the range: \n");
```

5]

```
scanf ("%d", &high);
printf ("The prime numbers between the given range
        are :\n");

for (n= low; n<= high; n++)
{
    int count = 0;
    for (div = 2; div*div<=n; div++)
    {
        if (n%div==0){
            count++;
            break;
        }
    }
    if (count==0)
    {
        printf ("%d\t", n);
    }
}}
```

6] PROGRAM -- 6

```
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
int main() {
    int c=4;
    float a,v,r,n;
    while(c)
```

6]

```
{
printf("Enter the choice of shape:\n");
printf("1.Cylinder\n2.Cone\n3.Sphere\n0.Exit\n");
scanf("%d",&c);
Switch(c)
{
 case 1:printf("Enter radius:\n");
  scanf("%f",&r);
  printf("Enter height:\n");
   scanf("%f",&h);
   a=(2*3.14*r*h)+(2*3.14*r*r);
   v=(3.14*r*h);
   printf("Area:%f\nVolume:%f\n",a,v);
   break;

  case 2: printf("Enter radius:\n");
          scanf("%f",&r);
          printf("Enter height:\n");
          scanf("%f",&h);
          a=(3.14*r)*(r+sqrt((h*h)+(r*r)));
          v=(3.14*r*r*h)/3.0;
          printf("Area:%f\nVolume:%f\n",a,v);
         break;
case 3: printf("Enter radius:\n");
        scanf("%f",&r);
        a=4*3.14*r*r;
        v=(4*3.14*r*r*r)/3.0;
        printf("Area:%f\nVolume:%f\n",a,v);
         break;
        case 0: printf("Exit\n");
           exit(0);
        default: printf("Invalid choice\n");
}
}
```

6]

```
    return 0;
}
```