Week-2

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1BM19CS051

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

4)
```
#include <stdio.h>
int main()
{
    int c,s,total;
    printf("enter the marks of cie\n");
    scanf("%d", &c);
    printf("enter the marks of see\n");
    scanf("%d", &s);
    total = c+(s/2);
    if (total>=90 && total<=100)
    printf("you have obtained S grade\n");
    else if (total>=80 && total<90)
    printf("you have obtained A grade\n");
```

```
else if (total >=70 && total <80)
printf("you have obtained B grade\n");
else if(total >= 60 && total <70)
printf("you have obtained C grade\n");
else if (total >=50 && total < 60)
printf("you have obtained D grade\n");
else if (total >= 40 && total<50)
printf("you have obtained E grade\n");
else
printf("you have obtained F grade \n");
return 0;
}
```

5)
```
#include<stdio.h>
int main()
{
int n,n1,n2,c;
printf("enter the first number\n");
scanf("%d", &n1);
printf("enter the second number\n");
scanf("%d", &n2);
printf("prime numbers between %d and %d are\n", n1,n2);
for(n=n1;n<=n2;n++)
{
c=0;
for(int i=2;i<=n/2;i++)
{
if(n%i==0)
```

```
    {
        c++;
        break;
    }
  }
  if(c==0 && n!=1)
  printf("%d\n", n);
}
  return 0;
}
```

6)

```
#include<stdio.h>
#include<math.h>
int main()
{
  int choice, cr, ch;
  int ccr, cch;
  int sr;
  int cont=1;
  float ca, cv, cca, ccv, sa, sv;
  while (cont == 1)
  {
    printf("select the shape from the option given below\n");
    printf("1.cylinder\n2.cone\n3.sphere\n");
    scanf("%d", &choice);
    if (choice == 1)
    {
      printf("enter the radius of the cylinder\n");
      scanf("%d", &cr);
      printf("enter the height of the cylinder\n");
      scanf("%d", &ch);
      ca = 2*3.14*cr*ch + 2*3.14*cr*cr;
```

```
printf(" AREA = %.f\n", ca);
cv = 3.14*cr*cr*ch;
printf(" VOLUME = %.f\n",cv);
}
  if(choice == 2)
{
  printf(" enter the radius of the cone\n");
  scanf(" %.d", &ccr);
  printf(" enter the height of the cone\n");
  scanf(" %.d", &cch);
  cca = 3.14*ccr*(ccr + sqrt(pow(cch,2)+pow(ccr,2)));
  printf(" AREA = %.f\n",cca);
  ccv = 3.14* pow(ccr,2)*cch;
  printf(" VOLUME = %.f\n",ccv);
  }
 if(choice == 3)
 {
   printf(" enter the radius of the sphere\n");
   scanf(" %.d", &sr);
   sa = 4* 3.14 * pow(sr,2);
   printf(" AREA = %.f\n", sa);
   sv = (4* 3.14* pow(sr,3))/3;
   printf(" VOLUME = %.f\n", sv);
 }
 printf(" do you want to continue? if yes enter 1 else 0\n");
 scanf(" %.d", &cont);
 if (cont==1)
 continue;
  else
   break;
 }
  return 0;
 }
```