Week - 2

(C/Java)

3. WAP to accept a no. n from user and print n rows of output below

Ex. n = 4

Output :
```
1
2 3
4 5 6
7 8 9 10
```

Sol^n
```
#include<stdio.h>
int main()
{
  int i, j, n, num=1;
 printf("enter value of n:");
  scanf("%d", &n);
  for (i=1; i<=n; i++)
  {
  for (j=1; j<=i; j++)
  {
     printf("%d", num);
     num++;
  }
  printf("\n");
  }
  return 0;
  }
```

4. WAP to accept CIE marks (out of 50) and SEE marks (out of 100) and print his/her grade. Use if else if ladder

Soln

```
# include <stdio.h>
int main ()
{
int marks1, marks2;
printf ("enter the CIE marks:");
scanf ("%d", &marks1);
printf ("enter the SEE marks;");
scanf ("%d", &marks2);
if (marks1 <20)
printf ("grade isf");
else if (marks2 >=90)
printf ("grade isA");
else if (marks2 >=80)
printf ("grade is B");
else if (marks2 >=70)
printf ("grade is C");
else if (marks2 >=60)
printf ("grade is D");
```

```
else if (marks 2 >= 40)
printf ("grade is E");
else
printf ("grade is F");
}
```

5. WAP to print prime no.s b/w two given integers.

Sol^n

```
#include <stdio.h>
int checkPrimeNumber (int n);
int main ()
{
 int n1, n2, i, flag;
printf ("Enter two positive integers.");
scanf ("%d %d", &n1, &n2);
printf ("Prime number between %d and %d
    are: ", n1, n2);
for (i = n1 + 1; i < n2; ++i)
{
 flag = check prime number (i);
 if (flag == 1)
 printf ("%d", i);
}
 return 0;
}
```

```
int checkPrimeNumber(int n)
{
  int j, flag = 1;
  for (j = 2; j <= n/2; ++j)
  {
    if (n % j == 0)
    {
      flag = 0;
      break;
    }
  }
  return flag;
}
```