## LAB-ASSIGNMENT 2 (Upto Control Structure)

## SUBJECT: Computer Lab. SUBJECT CODE: CS111. SEMESTER: I

7
1. Write a C program to swap two numbers using third variable and without using third variable.
2. Write a C program to verify a number is odd or even.
3. Write a C program to find maximum and minimum number from three
numbers.
4. Write a C program to check a year is leap year or not.
5. Write a C program to calculate grade of a student. (take the marks of 3
subject as a input and calculate grade using switch-case) 1+2+3+4+5=
6. Write a C program to calculate the summation of n numbers using for loop.
7. Write a C program to find maximum and minimum number from N
numbers.(without using array)
8 Write a C program to calculate the factorial of a number.
9. Write a C program to check a number prime or not.
10. Write a C program to check a number Armstrong or not (example, 153 = $9$ 13+53+73). Write a C program to find the prime number in a given range.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
11. Write a C program to find the prime number in a given range.
12. Write a C program to print the following the following diagram.
* * * * * *
* * * * * *
* * * * * *
13. Write a C program to print the following the following diagram.  1 222 33333 444444
$\eta_{r}/10 - 548$
222
33333
14. Write a C program to calculate the sum and average of a number (example,
N = 5483, sum = 20, avg = 5) $5 + 4 + 8 + 3 = 20$ $20/4 = 5$
15. Write a C program to reverse a given number (example, $n = 436$ , print 634).

2100)

 $\begin{cases} 2 / 100 | = 0 \\ 2 / 4 | = 0 \\ ceal you \end{cases}$ 

cre if (y / 400 = =0) 2. #include<stdio.h> int main() int n,x; printf("Enter an integer\n"); scanf("%d",&n);  $n \cancel{x} 1 = = 1)$  $/*if (n & 1 == 1) \ \blacktriangleright$ printf("Odd\n"); \ printf("Even\n"); \*/ if (x == n+1)printf("odd\n"); return 0; 000001 percentage 7=85, grade A t5 and 7,=70 /9mdB "entre marks of 4 mbjati"), 14./d./d./d., 2m, 2m2, 2m3); }

```
#include<stdio.h>
#include<math.h>
int main()
{
  int n,i,j;
  printf("give the number");
  scanf("%d", &n);
  j=sqrt(n);
  for(i=2;i<=j;i++)
  {
   if(n%i==0)
   break;
  }
  if(i>j)
  printf("%d is prime",n);
  else
  printf("%d is not prime",n);
  return 0;
```

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

```
#include<stdio.h>
#include<math.h>
int main()
{
int n,d,m,s;
printf("give the number");
```

N = 153 scanf("%d", &n); for(d=0,m=n;m>0;m/=10,d++); for (s=0, m=n; m>0; m/=10)s=s+pow(m%10,d);if(s==n)printf("%d is amstrong",n); printf("%d is not amstrong",n); return 0; S= POW (3,3) S=3'+ POW (5,3) S= 37+5+ POH(1,3) 5= 33+5+13

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

return 0;
```