Home Work 4

1.

```
Ans to the gues no:1
 Executing Continue statement. iten= 1, a=6, b=27
 iten=2, a=8, b=27
 iten = 3, a=10, b=27
 Executing continue Statement, îten=4, a=12, b=24
 Hen = 5, a=14, b=24
 Hen = 6, a = 16, b = 24
 Executing Continue Statement. Her =7, a=18, b=21
Hen = 8, a = 20, b = 21
 iten = 9, a = 22, b = 21
al= 22, b=21
```

Ams to the Ques no: 2

Enten a number: 3720485

Iteration number 1, digit = 5

Itenation number Q, digit = 8

Itenation number 3, digit = 4

Itenation number 4, disit = 9

I tenation mumber 5, digit = 2

Itenation number 6, digit = 7

Iteration number 7, digit = 3

```
3.
#include <math.h>
#include <stdio.h>
double Series(int n)
{
 int i;
 double sums = 0.0, ser;
 for (i = 1; i <= n; ++i) {
   ser = 1 / pow(i, i);
   sums += ser;
 }
 return sums;
}
int main()
{
int n;
printf("ENTER THE VALUE OF n : ");
scanf("%d",&n);
 double res = Series(n);
 printf("SUM OF THE SERIES IS: %.3f", res);
 return 0;
}
```

```
■ "E:\Education\CSE\CSE115\Home Work 4\prb3.exe" — □ ×

ENTER THE VALUE OF n : 5
SUM OF THE SERIES IS: 1.291

Process returned 0 (0x0) execution time : 1.707 s

Press any key to continue.
```

```
4.
#include <stdio.h>
int main()
{
 int n,i,sum=0;
 printf("Enter n value: ");
 scanf("%d",&n);
 for (i=1;i<=n;i++)</pre>
```

```
sum=sum+i;
printf("The sum of first %d is %d",n,sum);
return 0;
}
Output:
 III "E:\Education\CSE\CSE115\Home Work 4\prb4.exe"
                                                                     Enter n value: 15
The sum of first 15 is 120
Process returned 0 (0x0) execution time : 1.874 s
Press any key to continue.
5.
#include <stdio.h>
#include <conio.h>
int main(){
  int N, facto, count;
  printf("Enter a number for find the factorial :");
  scanf("%d",&N);
  for(count = 1, facto = 1; count <= N; count++){</pre>
     facto = facto * count;
  }
```

```
printf("Factorial of %d is : %d", N, facto);
return 0;
}
```

```
6.
#include <stdio.h>
int main() {
  int base, power;
  double result = 1.0;
  printf("Enter a base number: ");
  scanf("%d", &base);
  printf("Enter the power, the number to be raised: ");
```

```
scanf("%d", &power);
while (power != 0) {
result *= base;
--power;
}
printf("Answer = %.0If", result);
return 0;
}
Output:
■ "E:\Education\CSE\CSE115\Home Work 4\prb3.exe"
                                                                                  Enter a base number: 7
Enter the power, the number to be raised: 2
Answer = 49
Process returned 0 (0x0) execution time : 4.255 s
Press any key to continue.
```

```
7.
#include <stdio.h>
int main()
{
```

```
int n1, n2;
printf("Enter n1: ");
scanf("%d",&n1);
printf("Enter n2: ");
scanf("%d",&n2);
int temp;
if(n1>n2)
  temp=n2;
  n2=n1;
  n1=temp;
}
int i=0;
int count=0;
for(i=n1+1;i<n2;i++)
{
  if(i%3==0&&i%5!=0)
  {
    count++;
  }
}
printf("%d numbers",count);
```

}

```
"E:\Education\CSE\CSE115\Home Work 4\prb7.exe" — 

Enter n1: 10
Enter n2: 200
50 numbers
Process returned 0 (0x0) execution time: 6.764 s
Press any key to continue.
```

8.

```
a)
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Enter number of rows: ");
    scanf("%d",&n);
    if(n%2!=0)
    {
        for(i=n;i>=1;i--)
        {
            for(j=1;j<=i;j++)
            {
                 printf("* ");
            }
            printf("\n");
        }
        else</pre>
```

```
printf("Enter a odd number");
return 0;
}Output:
```

```
b)
#include<stdio.h>
#include<conio.h>
int main()
{
  int n, s, i, j;
  printf("Enter number of rows: ");
  scanf("%d",&n);
  for(i = 1; i <= n; i++)
{</pre>
```

```
for(s = i; s < n; s++)
printf(" ");

for(j = 1; j <= i; j++)
printf("* ");

printf("\n");
}
return 0;
}</pre>
```

```
c)
#include<stdio.h>
#include<conio.h>
```

```
int main()
{
  int n, s, i, j;
  printf("Enter number of rows: ");
  scanf("%d",&n);
  for(i = n; i >= 1; i--)
  {
    for(s = i; s < n; s++)
    printf(" ");
    for(j = 1; j <= i; j++)
    printf("* ");
    printf("\n");
  }
  return 0;
}</pre>
```

```
d)
#include<stdio.h>
#include<conio.h>
int main()
{
printf("Enter size of rows: ");
int n, i, j, m = 1, p;
scanf("%d",&n);
for(i = 0; i <= n; i++)
{
for(j = n; j > i; j--)
{
printf(" ");
printf("*");
if (i > 0)
for(p = 1; p <= m; p++)
printf(" ");
m += 2;
printf("*");
}
printf("\n");
```

```
}
m -= 4;
for(i = 0; i <= n-1; i++)
for(j = 0; j <= i; j++)
{
printf(" ");
printf("*");
for(p = 1; p <= m; p++)
{
printf(" ");
m -= 2;
if(i != n-1)
printf ("*");
}
printf("\n");
return 0;
```

```
for(j=1;j<=(2*i-1);j++)
    {
      if(j==1 | | j==2*i-1)
         printf("*");
       else
         printf(" ");
    }
    printf("\n");
  }
  for(i=n-1;i>=1;i--)
  {
    for(k=n;k>=i;k--)
      printf(" ");
    for(j=1;j<=(2*i-1);j++)
    {
      if(j==1 | | j==2*i-1)
         printf("*");
       else
         printf(" ");
    }
    printf("\n");
  }
else
  printf("Enter a odd number");
```

}

}

```
f)
#include<stdio.h>
int main()
{
   int i,j,n,k;
   printf("Enter value of n : ");
   scanf("%d",&n);
```

```
if(n%2!=0)
 {
   for(i=1;i<=n;i++)
   {
      for(k=1;k<=n-i+1;k++)
        printf("*");
      for(j=1;j<2*i-1;j++)
        printf(" ");
      for(k=1;k<=n-i+1;k++)
        printf("*");
      printf("\n");
   }
   for(i=2;i<=n;i++)
   {
      for(k=1;k<=i;k++)
        printf("*");
      for(j=1;j<2*(n-i)+1;j++)
        printf(" ");
      for(k=1;k<=i;k++)
        printf("*");
      printf("\n");
   }
 }
 else
   printf("Enter a odd number");
}Output:
```

