Class 8 Lab questions

```
#1.WAP to print the following pattern for n rows. Ex. for n=5 rows 1 0 1 1 0 1 0 1 0 1 0 1 Code:
```

Output:

```
TERMINAL
  PS C:\Users\KIIT\Desktop\Programming\class8> gcc char2.c
  PS C:\Users\KIIT\Desktop\Programming\class8> ./a.exe
  enter the value:
  0 1
  101
  0101
  10101
 010101
  1 \; 0 \; 1 \; 0 \; 1 \; 0 \; 1 \\
 PS C:\Users\KIIT\Desktop\Programming\class8>
PS C:\Users\KIIT\Desktop\Programming\class8> ./a.exe
enter the value:
10
010
01010
101010
PS C:\Users\KIIT\Desktop\Programming\class8>
```

```
#2.WAP to print the following pattern for n rows. Ex. for n=5 rows A A B C A B C D A B C D E
```

```
Code:
```

```
#include<stdio.h>
int main()
{
   int a285,b285,d285;
   char ch285;
   printf("enter the value:\n");
   scanf("%d",&a285);
   printf("\n");
   for(b285=1;b285<=a285;b285++)
   {
      ch285='A';
      for(d285=1;d285<=b285;d285++)
        {printf("%c ",ch285);
            ch285=ch285+1;}
      printf("\n");
}
return 0;
}</pre>
```

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

enter the value:
9

A
A B
A B C
A B C
A B C D
A B C D E
A B C D E F
A B C D E F
A B C D E F G
A B C D E F G
A B C D E F G
A B C D E F G
A B C D E F G H
A B C D E F G H I
PS C:\Users\KIIT\Desktop\Programming\class8>
```

#3. Series $1 + 32/3 + 52/5 + 72/7 + 3 + \dots + 111 + 111 + 111 + 11111 + 11111 + 11111 + 11111 + 11111 + 11111 + 1111 + 1111 + 1111 + 1111 + 1111 + 1111 + 1111 + 1111 + 1111 + 1111 + 1111 + 11$

Code:

```
#include <stdio.h>
#include <math.h>
int main()
{
   int i285,N285;
   float sum285;
   int count285;
```

IT department

```
printf("Provide total number of terms=>");
    scanf("%d",&N285);
    sum285=0.0f;
    count285=1;
    for(i285=1;i285<=N285;i285++)
    {
        sum285 = sum285 + ((float)(pow(count285,2))/ (float)(pow(count285,3)));
        count285+=2;
    }
    printf("Sum of the series is: %f\n",sum285);
    return 0;
}</pre>
```

Output:

```
PS C:\Users\KIIT\Desktop\Programming\class8> gcc series.c
PS C:\Users\KIIT\Desktop\Programming\class8> ./a.exe
Provide total number of terms=>9
Sum of the series is: 2.080624
PS C:\Users\KIIT\Desktop\Programming\class8>
```

```
PS C:\Users\KIIT\Desktop\Programming\class8> ./a.exe
Provide total number of terms=>5
Sum of the series is: 1.787302
PS C:\Users\KIIT\Desktop\Programming\class8>
```

Code:

```
KIDUS ABEBE
Roll No- 2106285
Section A11
```

IT department

```
}
return 0;
}
```

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\KIIT\Desktop\Programming\class8> gcc center_star.c

PS C:\Users\KIIT\Desktop\Programming\class8> ./a.exe

Enter a number to form a pyramid =>6

1
121
12321
1234321
123454321
12345654321
PS C:\Users\KIIT\Desktop\Programming\class8>

PS C:\Users\KIIT\Desktop\Programming\class8>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\KIIT\Desktop\Programming\class8> ./a.exe

Enter a number to form a pyramid =>8

1
121
12321
1234321
1234567654321
123456787654321
123456787654321
PS C:\Users\KIIT\Desktop\Programming\class8>

PS C:\Users\KIIT\Desktop\Programming\class8>
```