Date: 2/8/24

Day:

Assignment - 5

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41. write a Program to find the sum of digits of n digit number sum should be single digits.

```
import java.util.scanner;
    Public class slot single digit
{
scanner input = new scanner (system.in);
  int n = input . next int ();
 from (int i=0; j<n; i++)
}
from (int j=0; j<n; j++)
}
if (i==0||j==0|| i==n-1|| j==n-1)
system. out. Print (" s");
else
system. out. Print (" ");
```

2 Find the Nth maximum number and Nth minimum number in an array and then find the sum of it and difference of it.

```
impost jawa . util. scanner:
Public class minmax
{
  Public static void main (string [i3 ar gs)
  int arr [J = { 14, 16, 87, 36, 25, 84, 34 };
  int len = arr. length;
  for (int i=0; i < len ; i++)
  {
     for (int j = i++; j < len; j++)
     {
        if (arr [iJ > arr [jJ)
        {
           int temp = arr [iJ;
           arr [iJ = arr [jJ;
           arr [jJ = temp:
        }
     }
  }
```

```
int m = 1, n = 3;
int max = arr [len - m];
int min = arr [n - 1];
system. out. Print (m + "maximum number:
                                   + max);
system. out. Print ("n" + n + "minimum num:
                                          + min

int sum = max + min :
int Diff = max - min :
system. out . Print (" in sum + + Sum);
system. out . Print (" in Difference = " + Diff
    }
}
```

3. Write a Program to Print the total amount available in the ATN machine with the condition applies.

```
import java
```

```
Public static void main (string [] args)
{
  Scanner input = new Scanner (system.in)
  string str = input. next Line ();
  char arr [] = new char [str.length () ];
  int len = str. length ();
  int x=0;
  for (int i=0; i< len; i++)
  {
    arr [i] = str. Char At (i);
    if (arr [i] == c)
    {
      system.out. Print.ln (c + " is found in string at index :" + (i+1)
      x = 1;
    }
  }
  if (x ==0)
  system. out. Print ("character not found");
}
}
```

36. Write a Program to Print the below Pattern

```
1
2   2
3   3   3
4   4   4   4
3   3   3
2   2
1
```

```
import java.util.Scanner;
Public class Print Pattern
{
    Public static void main (String [] args){
-> Scanner input = new Scanner (System.in);
    int n = input.nextInt();
    for (int i=1; i<=n; i++)
    {
        for (int j=1; j<i; j++)
        {
            System.out.Println();
        }
        System.out.Println();
```

37.

```
}
for (int i=n-1; i >=1; i--)
{
    for (int j=1; j<= i; j++)
    {
        system. out. Print (i);
    }
    system. out. Println();
}
}
```

---

32. Program to find whether the given number is Armstrong number or not.

```
import java. util. Scanner;
Public class Armstrong
{
    Public static void main (string [] args)
    {
        Scanner input = new Scanner (system. in);
        int n = input . nextInt();
        int num = n;
```

```
while (num1 != 0)
{
    int rem = num1 % 10;
    arm = arm + (rem * rem * rem);
    num1 = num1/10;
}
if (n == arm)
    system.out.Print("Armstrong number");
else
    system.out.Print("Not Armstrong
                      number");
}
}
```

38. Write a Program to arrange the letter of the word ~~ap~~ alphabetically in reverse order.

```
import java.util.Scanner;
import java.util.Arrays;
Public class ak
{
```

```
Public static void main (string args [])
{
    Scanner input = new Scanner (System. in);
    string name = input. nextLine ();
    int len = name. length ();
    char arr [] = new char [len];
    string Alpha;
    for (int i=0; i < len; i++);
    {
        arr [i] = name. charAt (i);
    }
    Arrays. sort (arr);
    for (int i = len - 1; i >=0; i --)
    {
        System. out. Print (arr [i] + " ");
    }
}
}
```

39. Write a Program that accepts a string from user and displays the same string after removing vowels from it.

```
import java.util.scanner
Public class removing vowels
{
    Public static void main (string [] args)
    {
    Scanner input = new scanner (system.in)
    string name = input.nextLine ();
    string n1 = name.replaceAll ("Aeiou
                                  AEIOu", "");
    system.out.Println (n1);
    }
}
```

40. Write a Program to Print hollow square Dollar Pattern?

```
import java.util.Scanner;
Public class square Dollar pattern
{
    Public static void main (string [] args)
    {
    Scanner input = new Scanner (system.in)
      int n = input.nextInt ();
    for (int i=0; i<n; i++);
      {
        for (int j=0; j<n; j++)
        {
          if (i==0 || j==0 || i==n-1 || j==n-1);
            system.out.Print ("$");
          else
            system.out.Print (" ");
        }
      }   system.out.Println ();
}
```