Assignment-4 — Of. Teswanth

192321056

31. Write a program to count all the prime and composite number entered by user

```
Int arr[]={4,54,29,71,7,59,98,23};
int com=0, pri=0;
for (int i=0 ; i<arr.length; i++)
{
   int c=0;
   for (int j=i ;j<arr[i];j++){
        if(arr[i] %j==0)
            c++;}
   if(c>1)
      com++;
   else
      pri++;}
   System.out.println ("composite number:"+com);
   System.out.println ("In prime number:"+pri);
}
```

32. Find the nth maximum number and nth minimum number in an array and then find the sum.

```
Int arr []={14,16,87,36,25,89,34};
int Len =arr length;
for(int i=0; i<len; i++){
```

```
        for (int j=i+1; j<len ; j++) {
        if (arr[i] > arr[j]){
            int temp = arr[i];
            arr[i] = arr[j];
            arr[j] = temp;
        }
    }
}
int m=1, n=3;
int max = arr[len-m];
int min = arr[n-i];
system.out. print (m + " maximum number");
system.out . print ("\n" + n + " minimum number");
int sum = max + min;
int Diff = max - min;
```

33. Write a program to print the total amount available in the atm machine with the condition applied.

```
int n1=500, d1=4, n2=100, d2=20, n3=200, d3=200, n4=2000,
    d4=1;
int total = (n1 * d1) + (n2 * d2) + (n3 * d3) + (n4 * d4);
system.out.print("total available Balance in Atm:"
                 + total);
```

34. Write a program using

```
string S1 = "madam";
string S2 = "";
int len = S1.length();
for (int i=len; i>=0;
    S2 = S2 + S1.char at
if (SL.equals(S2))
    system.out.print
else
    system.out.print(
```

35. Write a program to

number eqvilent to b
octal numbers:

```
int dec = 15;
string bin = integer
string oct = integer
system.out.println(
system.out.println(
```

36. A worker and 10 boi
grade B workers

```
Scanner input = new sca
int a,b;{
    bonus = b1 * (0.1);
    if (b1 < 10000){
```

34. Write a program using choice to check

```
string S1="madam";
string S2="";
int len=S1.length();
for (int i=len; i>=0; i--){
    S2=S2+S1.charat(i);}
if (S1.equals(S2))
    system.out.print("Pallindrome");
else
    system.out.print("not pallindrome");
```

35. Write a program to convert decimal number equivalent to binary number and octal numbers:

```
int dec=15;
string bin=integer to binary string(dec);
string oct=integer to octal string(dec);
system.out.println("Binary number="+Bin);
system.out.println("Octal number="+Oct);
```

36. A worker and 10 bonus on salary to the grade B workers

```
scanner input=new scanner(system in);
int a,b;{
    bonus=b1*(0.1);
    if (b1<10000){
```

```
        bonus = bonus + b1 + (0.02);
      }
      system.out.println("Salary = " + b1);
      system.out.println("Bonus = " bonus);
      system.out.println("total to be paid");
  }
  else {
    system.out.println("Enter valid grade");
  }
```

37. Write a program to print the first n perfect numbers.

```
scanner input= new scanner(system.in);
int n= input.next int();
    int sum=0, temp=0;
    for (int j = 2 ;j<=1000 ;j++){
      if (n>temp)
          sum-1;
      for (int i=2;i<j ;i++) {
        if (j%.1., i==0)
              sum =sum+1;}
        if (sum==j){
            system.out.print (j+" ");
            temp= temp+1;
        }
    }
```

38. Write a program to print first n perfect number

```
int total = (a1 + a2 + a3 + a4);
float agg = total .146;
System.out = print in (total);
System.out = print in (agg);
if (agg 75){
    System out.println ("distance"); }
else if (agg) = 60 (agg <45)
    System.out: print inc first, Division;
else if (agg >40, agg <50)
    system.out.print ("third division")
age .system out print in ( );
```

39. write a program to calculate given the following condition.

```
Scanner input = new Scanner (system.in);
int income = input.next input ();
float taxi
  if (income < 15000){
     system.out.printLn ("tax " income/10);}
 else if (income >=30000 income <=50000){
    system.out.printLn ("tax =" + income '20');
 else
   system.out.println ("tax=" + income '30');
```

40. Write a program to enter the marks of a students in subjects

```
int totaL= (a1+a2+a3+a4);
system.out.printLn(totaL);
system.out.printLn ("agg");
if (age 75)
   system.out.printLn ("distinction");
else
   system (agg = 60 "agg < 75"); {
system.out printLn ("second divison");}
else if (agg>=400  agg <50){
   system.out print Ln ("third division");}
else{
   system.out printLn ("fail");}
```