1.DECREMENT PATTERN PROGRAM

2.LEFT DECREMENT PATTERN PROGRAM

```
System.out.println();
}

OUTPUT:-

* * *
* * *
* * * *
* * * *
```

3. RIGHT INCREMENT PATTERN PROGRAM

OUTPUT: -

4. PYRAMID PATTERN PROGRAM

```
package patternprogram;
public class PyramidProgram
     public static void main(String[] args)
          int i,j;
          for(i=1;i<=5;i++)//For Loop For Rows</pre>
               for(j=5;j>=i;j--)//For Loop To Print Spaces
                     System.out.print(" ");
               for(j=1;j<=i;j++)//For Loop To Print Star/For</pre>
Loop For Coloumn
               System.out.print(" *");
               System.out.println("");
     }
OUTPUT: -
```

4.REVERSE 3-DIGIT NUMBER

```
package whileloop;
import java.util.Scanner;
public class ReverseThreeDigit
{
```

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SUBJECT:-ALL LOGICAL PROGRAM AND ASSIGNMENT.

```
public static void logic2()
     Scanner y = new Scanner (System.in);
     System.out.print("Enter Integer Value:-");
     int n= y.nextInt();
     v.close();
     int s=0;
     int t;
     while (n>0)
          //LOGIC TO REVERSE 3-DIGIT NUMBER.
          t=n%10;//655
          s=s*10+t;//6 65 655
          n=n/10;//55 5 0
     System. out.println("Reversed Number is:-"+s);
public static void main(String[] args)
     logic2(); //CALLING STATIC METHOD.
```

OUTPUT: -

Enter Integer Value: -625 Reversed Number is: -526

5.ASSIGNMENT PRINT PRIME NUMBER

```
package personalprojects;
import java.util.Scanner;
public class PrimeNumber
     public static void main(String[] args)
          Scanner s=new Scanner(System.in);
          System.out.print("Enter The Integer Value:-");
          int num=s.nextInt();
          int i, temp=0;
          for(i=2;i<=num-1;i++)//Execute Till The Number is Less</pre>
Or Equal To 2.
```

```
if (num%i==0) //Checking The Modulus Value Of Given
Number.
                System.out.println("Divisible by:-"+i);
                temp=temp+1;
                s.close();
          if (temp==0) //Check the Temp Value is 0 Or Not.
               System.out.println(num + " is a Prime
Number"); //Print Prime Number.
          }
          else
               System.out.println(num + " is not a Prime
Number");//Print Not A Prime Number.
     }
OUTPUT: -
Enter The Integer Value: -16
Divisible by:-2
Divisible by:-4
Divisible by:-8
16 is not a Prime Number
Enter The Integer Value: -7
7 is a Prime Number
```

6. ASSIGNMENT TO PRINT 100 TO 200 PRIME NUMBER

```
package personalprojects;

public class PrimeHTT
{
    public static void main(String[] args)
    {
        int n=200;
        int i,j,temp=0;
}
```

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```
System.out.print("Prime Numbers Are:-");
          for(i=100;i<=n;i++)</pre>
                for(j=2;j<=i-1;j++)
                if (i%j==0) //CHECKING THE MOD VALUE EQUAL TO ZERO
                temp=temp+1;
                }
          if(temp==0)
                System.out.print(" "+i);//PRINT PRIME NUMBER.
          }
          else
          {
                temp=0;
     }
     }
OUTPUT:-
Prime Numbers Are: - 101 103 107 109 113 127 131 137 139 149 151
157 163 167 173 179 181 191 193 197 199
```

7. ASSIGNMENT TO PRINT FACTORIAL OF A NUMBER

```
package personalprojects;
import java.util.Scanner;

public class FactorialNumber
{
  public static void main(String[]arg)
{
     Scanner s = new Scanner(System.in);
     System.out.println("Enter Any Integer Value:-");
     int num=s.nextInt();
     int i,fact=1;
```

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```
for(i=1;i<=num;i++)//For Loop To Check The Condition
{
    fact=fact*i;//Calculate The Factor Value.
    s.close();
}
System.out.println("Factorial Of " +num+ " is:-"
+fact);//Print The Factorial Value Of Given Number.

}
OUTPUT:-
Enter Any Integer Value:-6
Factorial Of 6 is:-720
Enter Any Integer Value:-3
Factorial Of 3 is:-6</pre>
```

8.ASSIGNMENT TO PRINT PALINDROME OF A NUMBER

```
package personalprojects;
import java.util.Scanner;
public class Palidrome
public static void logic2()
     Scanner m=new Scanner(System.in);
               System.out.print("Enter Integer Value:-");
               int n=m.nextInt();
     int t=n;
     int s=0,r;
     while (t!=0) // Check Condition Till t Is Zero.
          //LOGIC TO CHECK THE PALINDROME NUMBER.
          r=t%10;
          s=s*10+r;
          t = t/10;
     if (n==s) // Check The Given Number Is Same As Variable S
Number
     {
```

```
System.out.println(n+" is a Palindrome Number");
     else
          System.out.println(n+" is not a Palindrome Number");
     m.close();
public static void main(String[] args)
     logic2();//Static Method Calling In Main Method.
}
OUTPUT:-
Enter Integer Value: -531
531 is not a Palindrome Number
Enter Integer Value: -121
121 is a Palindrome Number
Enter Integer Value: -123
123 is not a Palindrome Number
535:-
       r=t%10; 5 3 5
        s=s*10+r; 5 53 535
        t=t/10; 53 5 0
121:- r=t%10; 1 2 1
       s=s*10+r; 1 12 121
       t=t/10; 12 1 0
123:- r=t%10;3 2 1
     s=s*10+r;3 32 321
     t=t/10; 12 1 0
```

9. ASSIGNMENT TO PRINT FIBONACCI SERIES

```
package personalprojects;
import java.util.Scanner;
public class FibonacciSeries
public static void main(String[] args)
     int a=0,b=1,i=0,c;
     Scanner s=new Scanner(System.in);
     System.out.print("Enter The Range:-");
     int n=s.nextInt();//Scan The Range.
     s.close();
     System.out.print("Fibonacci Series:");
     System.out.print(a+" ");
     System.out.print(b);
     while (i<=n)</pre>
          c=a+b; //Add The value of A+B.
          a=b;//Swap The Value Of B in A.
          b=c;//Swap The Value of C in B
          i++;
     System.out.print(" "+c);//Print The Value Of C.
}
OUTPUT:-
Enter The Range: -5
Fibonacci Series: 0 1 1 2 3 5 8 13
10. ASSIGNMENT TO PRINT NATURAL NUMBERS
```

```
package personalprojects;
import java.util.Scanner;
public class NaturalNumbers
```

```
public static void main(String[] args)
     Scanner s=new Scanner(System.in);
     System.out.print("Enter The Range:");
     int n=s.nextInt();//Scan The Input Range.
     s.close();
     System.out.print("Natural Numbers Are:");
     int i=1;//Intialize The Value Of I.
     while (i<=n)</pre>
     {
          System. out.print(i+" ");//Print The Value Of I.
     }
}
OUTPUT: -
Enter The Range:10
```

Natural Numbers Are:1 2 3 4 5 6 7 8 9 10