ASSIGNMENT-3

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Q 1. Wap to print number 1 to 100.

```
package Day3;

public class Number {

public static void main(String[] args)

	{

		for (int i=1; i<=100; i++)

		System.out.println(i);

	}

}
```

OUTPUT-->

```
 1
 2
 3
 4
 5
 6
 7
 8
 9
10
11
12
13
14
15
```

100

Q 2 wap to print even numbers between 1 to 20.

```
package Day3;

public class Even {

	public static void main(String[] args) {

		int n=20;

		System.out.println("The even numbers between 1 to" +n+ ":");

		for(int i=1; i<n; i++)

		{

			if (i%2==0)

			{

			  System.out.println(i +" ");

			}

		}

	}

}
```

OUTPUT-->

```
The even numbers between 1 to20:

2

4

6

8

10

12

14

16

18
```

Q 3 wap to print cube of 1 to 5 number.

```
package Day3;

public class Cube {

	public static void main(String[] args) {

		for (int i=1; i<=5; i++)

		{

			System.out.println(i*i*i);

		}

	}

}
```

OUTPUT--> 1

8

27

64

125

Q 4 wap to check if a number is prime or not.

```
package Day3;

public class Prime {

	public static void main(String[] args) {

		int num=39;

		boolean flag=false;

		for (int i=2; i<=num/2; i++)

		{

		if (num % i==0)

		{
```

```
                    flag = true;
                break;
            }
        }
            if (!flag)
                System.out.println(num + "is a prime number");
                else
                    System.out.println(num + "is a not prime number");
        }
}
```

OUTPUT--> 39is a not prime number

Q 5 wap to print fibonacci series using for loop i.e adding last two results ex 0 1 1 2 3 5 8 13 21 34.

```
package Day3;
public class Fibonacci {
        public static void main(String[] args) {
            int x=0, y=1, z;
            for (int i=2; i<=10; i++)
            {
                z = x + y;
                System.out.println(z);
                x = y;
                y = z;
            }
        }
}
```

OUTPUT-->

1

2

3

5

8

13

21

34

Q 6 wap to print factorial of a number 5*4*3*2*1.

```
package Day3;
public class Factorial {
	public static void main(String[] args) {
		int i, fact=1;
		int num=5;
		for (i=1; i<=num; i++)
		{
			fact = fact * i;
		}
		System.out.println("Factorial of" +num+ "is:"+ fact);
	}
}
```

OUTPUT--> Factorial of5is:120

Q 7wap to ask a number from user and print table of that number.

```
package Day3;
```

```
import java.util.Scanner;

public class Table {

	public static void main(String[] args) {

		int num;

		Scanner s=new Scanner(System.in);

		System.out.println("Enter a number");

		num = s.nextInt();

		for (int i=1; i<=10; i++)

		{

			System.out.println(num*i);

		}

	}

}
```

OUTPUT-->

```
Enter a number

15

15

30

45

60

75

90

105

120

135

150
```

Q 8 wap to print prime numbers between 2 to 20.

```
package Day3;

public class Primerange {

	public static void main(String[] args) {

		int n;

		int test=0;

		for (n=2; n<=20; n++)

		{

			test=0;

			for (int i=2; i<=n/2; i++)

			{

				if (n%i==0)

				{

					test=1;

					break;

				}

			}

			if (test==0)

				System.out.println(n);

		}

	}

}
```

OUTPUT-->

```
2

3

5

7

11

13
```

17

19

Q 9 print patterns like

*****

******

****

****

****

```
package Day3;
public class Pattern {
	public static void main(String[] args)
	{
		for (int i=1; i<=5; i++)
		{
			for (int j=1; j<=i; j++)
			{
				System.out.print("*");
		    }
		  System.out.println();
		}
    }
}
```

OUTPUT-->

```
*
```

**

***

****

*****

b) 1

**   1 2**

**   1 2 3**

**   1 2 3 4**

**   1 2 3 4 5**

```
package Day3;
public class Pattern1 {
	public static void main(String[] args) {
		for(int i=1; i<=5; i++)
		{
			for (int j=1; j<=i; j++)
			{
		System.out.print(j);
			}
			System.out.println();
	}
  }
}
```

OUTPUT-->

1

12

123

1234

12345

c) A B C D

A B C

A B

A

```
package Day3;
public class Pattern4 {
	public static void main(String[] args) {
		int n = 4;
		char p = 'A';
		  for (int i=1; i<=n; i++)
		  {
		     p = 'A';
		     for (int j=1; j<=n-i+1; j++)
		     {
			System.out.print(p);
			p++;
		     }
		     System.out.println();
		     }
	      }
	}
```

OUTPUT-->

ABCD

ABC

AB

A

D A B C D D C B A

A B C C B A

A B B A

A A

```
package Day3;

public class Pattern5 {

	public static void main(String[] args) {

		char p = 'A';
		int space=0;
		   for (int i=1; i<=4; i++)
		   {
		      p = 'A';
		      for (int j=4; j>=i; j--)
		      {
		             System.out.print(p);
		             p++;
		      }

		          for (int l=0; l<space; l++)
		          System.out.print(" ");
```

```
                        for (int j=4; j>=i; j--)
                        {
                           p--;
                           System.out.print(p);
                        }
                          space = space+2;
                          System.out.println();
                }

        }
    }
```

OUTPUT-->

```
ABCDDCBA
ABC  CBA
AB    BA
A      A
```

E. A

AB

ABC

ABCD

ABCDE

```
package Day3;
public class Pattern2 {
       public static void main(String[] args) {
```

```
            char p = 'A';
            for (int i=1; i<=5; i++)
            {
               p = 'A';
               for (int j=1; j<=i; j++)
               {
                      System.out.print(p);
                      p++;
               }
               System.out.println();
               }
      }
}
```

OUTPUT-->

```
A
AB
ABC
ABCD
ABCDE
```

F. 1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

```
package Day3;
```

```
public class Pattern3 {

	public static void main(String[] args)

	{

		for(int i=1; i<=5; i++)

		{

			for (int j=1; j<=i; j++)

			{

			  System.out.print(i);

			}

			System.out.println();

	    }

     }

}
```

OUTPUT-->

```
1

22

333

4444

55555
```