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Lab 2
Assignment no.2
Concept Of Programming

```
package lab_2;
Q1.
//Q 1 Write a program to find sum of all integers greater than 100 and less than 200
that are divisible by 7.

public class Q1 {

	public static void main(String[] args) {
		int i, sum=0;
		for(i=101;i<200;i++)
		{
			if(i%7==0)
				{
				sum=sum+i;
				}

		}

		System.out.println(sum);



	}

}
```

Output:
2107

Q.2

```
package lab_2;
```

```java
//Q2 Write a program in java that ask three numbers fromuser and print the greatest among three .

import java.util.Scanner;

public class Q2 {

	public static void main(String[] args) {
		Scanner s = new Scanner(System.in);
		int num1,num2,num3;
		System.out.println("enter the three numbers:");
		num1 = s.nextInt();
		num2 = s.nextInt();
		num3 = s.nextInt();

		int num4 = num1>num2?((num1>num3)?num1:num3):((num2>num3)?num2:num3);
		System.out.println("Greater No is:"+num4);

	}

}
```

Output:

```
enter the three numbers:
100
200
500
Greater No is:500
```

Q.3

```java
package lab_2;
//Q3. WAP to find  ASCII value of a character .
import java.util.Scanner;
public class Q3 {

	public static void main(String[] args) {
		Scanner s= new Scanner(System.in);
	    char ch;
	    System.out.println("Enter Any Charactor:");
		ch=s.next().charAt(0);
		int value= ch;
		System.out.println("ascii value of" +ch+"=" +value);

	}

}
```

Output:

```
Enter Any Charactor:
A
ascii value ofA=65
```

Q.4

```
package lab_2;
//Q4. Java Program to Check Whether an Alphabet is Vowel or Consonant

import java.util.Scanner;
public class Q4 {

	public static void main(String[] args) {
		Scanner s = new Scanner(System.in);
		System.out.println("Enter Any Alphabet:");
		char ch= s.next().charAt(0);

		if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||
ch=='u'||ch=='A'||ch=='E'||ch=='I'||ch=='O'|| ch=='U')
			System.out.println("Alphabet is Vowel");
		else
			System.out.println("Alphabet is Consonant");
				}

}
```

Output:

```
Enter Any Alphabet:
enter
Alphabet is Vowel
```

Q.5

```
package lab_2;
//Q5 Check if a Number is Positive or Negative using if else

import java.util.Scanner;
public class Q5 {

	public static void main(String[] args) {
		Scanner s = new Scanner(System.in);
		int num1;
		System.out.println("Enter any number:");
		num1=s.nextInt();

		if(num1<0)
```

```
            System.out.println("Number is Negative");
        else
            System.out.println("Number is Positive");

    }

}
Enter any number:
-45254
Number is Negative
```

Q.6

```
package lab_2;
//Q6 WAP for swapping two numbers without using third variable


import java.util.Scanner;
public class Q6 {

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        int num1;
        int num2;
        System.out.println("For Swapping Enter Any Two Numbers:");
        num1=s.nextInt();
        num2=s.nextInt();

        System.out.println("Numbers Before Swap:"+num1+" "+num2);

            num1=num1*num2;
            num2=num1/num2;
            num1=num1/num2;

        System.out.println("Numbers After Swap: "+num1+" "+num2);



    }

}
```

```
For Swapping Enter Any Two Numbers:
45
13
Numbers Before Swap:45 13
Numbers After Swap: 13 45
```

Q.7

```
package lab_2;

public class Q7 {

	public static void main(String[] args) {

		System.out.println("Name"+"\t"+"Year of joining"+"\t"+" Address");
		System.out.println("Sam"+"\t"+"1999"+"\t"+"64D-Wallstreats");
		System.out.println("John"+"\t"+"1990"+"\t"+"64T-Wallstreats");
		System.out.println("Ashish"+"\t"+"2000"+"\t"+"54D-Wallstreats");









	}

}
```

Output:

```
Name   Year of joining      Address
Sam    1999   64D-Wallstreats
John   1990   64T-Wallstreats
Ashish 2000   54D-Wallstreats
```

Q.8

```
package lab_2;
import java.util.Scanner;
public class Gross_Sallary {

	public static void main(String[] args) {
		Scanner s= new Scanner(System.in);
		float sal;
		float hra;
		float da;
		System.out.println("Basic Sallary Of Employee: ");
		sal=s.nextInt();

		if(sal<=10000)
		{
```

```
                hra=sal*.2f;
                da=sal*.8f;
                System.out.println("Gross Sallary Of Employee; "+(sal+hra+da));

            }
            else if(sal<=20000)
            {
                hra=sal*.25f;
                da=sal*.9f;
                System.out.println("Gross Sallary Of Employee; "+(sal+hra+da));

            }
            else if(sal>20000)
            {
                hra=sal*.3f;
                da=sal*.95f;
                System.out.println("Gross Sallary Of Employee; "+(sal+hra+da));

            }




    }

}
```

Output:

```
Basic Sallary Of Employee:
45000
Gross Sallary Of Employee; 101250.0
```

Q.9

```
package lab_2;
//Q  8 Q  wap to print even numbers between 10 to 20
public class Q8 {

    public static void main(String[] args) {
        int i;


        System.out.println("Even NUmbers Are:");
        for(i=10; i<=20; i++)
        {
            if(i%2==0)
                System.out.println(i);

        }
```

```
	}

}
```

Output:

```
Even NUmbers Are:
10
12
14
16
18
20
```

Q.10

```
package lab_2;

public class Q9 {

	public static void main(String[] args) {
		int i;
		int j;
		int k;
		int n=20;
		System.out.println("Prime Number Between 2 to 20 are:");
		for(j=0;j<=n;j++)
		{
			k=0;
			for(i=1;i<=j;i++)
			{
				if(j%i==0)
				{
					k=k+1;
				}
			}

			if(k==2)
				System.out.println(j);

		}


	}

}
```

Output:

```
Prime Number Between 2 to 20 are:
2
3
5
7
11
13
17
19
```

Q.11

```java
package lab_2;

public class Q10 {

	public static void main(String[] args) {
		int a=456;
		int b=0;
		int rem;
		System.out.println("Number ="+a);
		while(a!=0)
		{
		rem=a%10;
		b=b*10+rem;
		a=a/10;
		}
		System.out.println("Reverse Number ="+b);
		}


	}
```

Output:

```
Number =456
Reverse Number =654
```