Assignment

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Q1 :

```
package assignment1;
import java.util.*;

public class eveodd {

	public static void check(int n) {
		if(n%2==0) {
			System.out.println("The entered"+ n+ " number is even");
		}
		else {
			System.out.println("The entered "+ n + " number is odd");
		}
	}
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc=new Scanner(System.in);
		System.out.println("enter the no");
		int n=sc.nextInt();
		check(n);


	}

}
```

Q2.

```
package assignment1;

import java.util.Scanner;
public class swap {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc =new Scanner(System.in);
		int a=sc.nextInt();
		int b=sc.nextInt();
		int c=0;

		c=a;
		a=b;
		b=c;

		System.out.println("thhe swap no are " + a+" and "+ b);
```

```
	}

}
```

Q3 :

```
package assignment1;

import java.util.Scanner;
public class greaterof3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc =new Scanner(System.in);
		int a=sc.nextInt();
		int b=sc.nextInt();
		int c=sc.nextInt();

		int d= Math.max(Math.max(a, b), c);
		System.out.println( d+" is the max no" );
	}

}
```

Q4 :

```
package assignment1;
import java.util.*;


public class vowel {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc =new Scanner(System.in);
		System.out.println("enter a character");
		char a1=sc.next().charAt(0);
		switch(a1){
		case 'a':
			System.out.println(" it is a vowel");
			break;
			case 'e':
			System.out.println(" it is a vowel");
			break;
			case 'i':
			System.out.println(" it is a vowel");
			break;
			case 'o':
			System.out.println(" it is a vowel");
```

```
                    break;
                    case 'u':
                    System.out.println(" it is a vowel");
                    break;
                    default:
                    System.out.println(" it not a vowel");

             }


      }

}
```

Q5:

```
package assignment1;
import java.util.*;

public class even {
public static void main(String args[]) {
      //Scanner sc =new  Scanner(System.in);
      int n=1;
      while(n<=50) {
            if(n%2==0) {
                  System.out.print(n+" ");
            }
            n++;
      }
}
}
```

Q6.

```
package assignment1;

public class odd {
      public static void main(String args[]) {
            int n=51;
            while(n<=100) {
                  if(n%2!=0) {
                        System.out.print(n+" ");
                  }
                  n++;
            }
      }


}
```

Q7.

```
package assignment1;
import java.util.*;

public class sumprint {

	public static void main(String[] args) {
		Scanner sc =new Scanner(System.in);
		int n=sc.nextInt();
		// TODO Auto-generated method stub
		double op=0;
		double init=2;
		double terms=n/2;
		op=(terms/2)*(2*init+(terms-1)*2);
		System.out.println("Sum of even nuumbers till "+n+" is ");
		System.out.print((int)op);

	}

}
```

Q8.

```
package assignment1;
import java.util.*;

public class patterns {
	public static void main(String args[]) {
Scanner sc=new Scanner(System.in);
		int n=sc.nextInt();
		for(int i=1;i<=n;i++) {
			for(int j=1;j<=i;j++) {
				System.out.print(i);

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

		System.out.println(" ");

		for(int i=1;i<=n;i++) {
			for(int j=1;j<=n;j++) {
				System.out.print(n);

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

		System.out.println(" ");

	int z=n;
	for(int i=1;i<=n;i++) {
```

```
                for(int j=1;j<=n;j++) {
                        if(j>=z) {
                        System.out.print("*");
                        }
                        else {
                                System.out.print(" ");
                        }

                }
                System.out.println("");
                z--;
        }
        }
}
```

Q9.

```
public class Main {

static void reverse(int a[], int n) {

 int i, k, t;

 for (i = 0; i < n / 2; i++) {

 t = a[i];

 a[i] = a[n - i - 1];

 a[n - i - 1] = t;

 }

 System.out.println("Reversed array is: \n");

for (k = 0; k < n; k++) {

System.out.println(a[k]);

 }

 }

public static void main(String[] args) {

 int[] arr = { 10, 20, 30, 40, 50 };

 reverse(arr, arr.length);

}
```

```
}
```

Q10.

```
import java.util.*;

public class SwapNumbers {

	public static void main(String[] args) {

		Scanner sc = new Scanner(System.in);

		int n = sc.nextInt();

		int[] arr = new int[n];

		for(int i=0; i<n; i++) {

			arr[i] = sc.nextInt();

		}

		int i =0;

		int j =1;

		while(j<n) {

				int temp = arr[i];

				arr[i] = arr[j];

				arr[j] = temp;

				i=j+1;

				j=i+1;

			}

		for(int k=0; k<n; k++) {

			System.out.print(arr[k] + " ");

		}

	}

}
```

Q11:

```
import java.util.Scanner;
public class BASE{
public static void main(String[] args) {
Scanner sc=new Scanner(System.in);
int num = sc.nextInt();
long factorial = 1;
for(int i = 1; i <= num; ++i)
{
// factorial = factorial * i;
factorial *= i;
}
System.out.printf("Factorial of %d = %d", num, factorial);
}
}
```

Q15:

```
import java.util.Scanner;
public class PRIME
{
public static void main(String[] args)
{
int num, i, count=0;
Scanner s = new Scanner(System.in);
System.out.print("Enter a Number: ");
num = s.nextInt();
for(i=2; i<num; i++)
{
if(num%i == 0)
{
count++;
break;
}
}
if(count==0)
System.out.println("\nIt is a Prime Number.");
else
System.out.println("\nIt is not a Prime Number.");
}
}
```

Q16:

```
import java.util.*;
public class CHECK
{

public static boolean isPrime(int number){
int i;
boolean flgPrime=true;
```

```
for(i=2; i<number/2; i++){
if(number%i==0){
flgPrime=false;
break;
}
}
return flgPrime;
}
public static void main(String args[]){
int loop,n;
System.out.print("Enter value of n: ");
Scanner SC=new Scanner(System.in);
n=SC.nextInt();
for(loop=2; loop<n; ++loop){
if(isPrime(loop)){
System.out.println(loop);
}
}
}
}
```

Q17:

```
import java.util.Scanner;
public class reverse {
public static void main(String args[]) {
int d, number,temp, revnum = 0;
Scanner sc = new Scanner(System.in);
System.out.println("Enter a number ::");
number = sc.nextInt();
temp = number;
while (temp >0) {
d = temp %10;
revnum = (revnum*10)+d;
temp = temp/10;
}
System.out.println("Reverse of the given number is:"+revnum);
}
}
```