Name : Shubham Shinde **Assignment : 2**

```
package assignment2;
//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 A1,Sum=0;

	for(A1=100;A1<=200;A1++)
	{
		if(A1%7==0)
		{
			Sum=Sum+A1;
			System.out.println("The no is divisible by 7 : "+A1);

		}

	}
	System.out.println("sum of all No's divisible by 7 is "+ Sum);
	}

}
```

OP

```
The no is divisible by 7 : 105
The no is divisible by 7 : 112
The no is divisible by 7 : 119
The no is divisible by 7 : 126
The no is divisible by 7 : 133
The no is divisible by 7 : 140
The no is divisible by 7 : 147
The no is divisible by 7 : 154
The no is divisible by 7 : 161
The no is divisible by 7 : 168
The no is divisible by 7 : 175
The no is divisible by 7 : 182
The no is divisible by 7 : 189
The no is divisible by 7 : 196
sum of all No's divisible by 7 is 2107
```

```java
package assignment2;

import java.util.Scanner;

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

public class Q2 {

	public static void main(String[] args) {
		System.out.println("Enter 3 floating Numbers : ");
		float f1=0;
		float f2=0;
		float f3=0;

		Scanner sc =new Scanner(System.in);
		f1=sc.nextFloat();
		f2=sc.nextFloat();
		f3=sc.nextFloat();

		if(f1>f2 && f1>f3)
		{
			System.out.println("f1 is greater : "+f1);
		}
		else if(f2>f1 && f2>f3)
		{
			System.out.println("f2 is greater : "+f2);
		}
		else if(f3>f1 && f3>f2)
		{
		System.out.println("f3 is greater : "+f3);
		}
		sc.close();

	}

}
```

OP

```
Enter 3 floating Numbers :
25.00
```

```
25.00
50.00
f3 is greater : 50.0
```

```java
package assignment2;

import java.util.Scanner;

//Q3. WAP to find  ASCII value of a character .

public class Q3{
	public static void main(String[] args) {
		char ch;
		Scanner sc =new Scanner(System.in);
		System.out.println("Enter a charctor to get ASCII Value :
");
		ch=sc.next().charAt(0);

		int value = ch;

		System.out.println("ASCII value of char  : "+ch+" =
"+value);

		sc.close();
	}
}
```

OP

```
Enter a charctor to get ASCII Value :
S
ASCII value of char  : S = 83
```

```java
package assignment2;

import java.util.Scanner;

//Q4. Java Program to Check Whether an Alphabet is Vowel or Consonant
public class Q4 {

	public static void main(String[] args) {

		char vowel;

		Scanner sc = new Scanner(System.in);
		System.out.println("Enter an Alphabet letter : ");
		vowel =sc.next().charAt(0);

		switch(vowel)
		{
		case  'a':
		case  'e':
		case  'i':
		case  'o':
		case  'u':
			System.out.println(vowel+": letter is Vowel");
			break;
		default : System.out.println(vowel+" : letter Consonant");

		}

		sc.close();

	}
}
```

OP

```
Enter an Alphabet letter :
B
B : letter is Consonant

Enter an Alphabet letter :
e
e: letter is Vowel
```

```java
package assignment2;

import java.util.Scanner;

//Q5 Check if a Number is Positive or Negative using if else
public class Q5 {

	public static void main(String[] args) {

		int number;

		Scanner sc = new Scanner(System.in);
		System.out.println("Enter any Neagtive or Positive No :");
		number =sc.nextInt();


		if(number>=0)
		{
			System.out.println(number+ ": is Positive Number");
		}

		else System.out.println(number+ " : is NegativeNumber");

		sc.close();
	}

}
```

OP

```
Enter any Neagtive or Positive No :
20
20: is Positive Number
Enter any Neagtive or Positive No :
-20
-20 : is Negative Number
```

```java
package assignment2;

import java.util.Scanner;

//Q6 WAP for swapping two numbers without using third variable

public class Q6 {

	public static void main(String[] args) {

		int a, b;
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the Choice number you wants to swap :");

		a=sc.nextInt();

		b=sc.nextInt();

		System.out.println("Before swap : "+ a +" "+b);


		a=a*b;
		b=a/b;
		a=a/b;

		System.out.println("After swap "+a+" "+b );

		sc.close();
	}

}
```

OP

```
Enter the Choice number you wants to swap :
25
16
Before swap : 25 16
After swap 16 25
```

```
package assignment2;
//7 Write a program that would print the information (name,
//year of joining, salary, address) of three employees by creating a
class named 'Employee'
//The output should be as follows:

//Name          Year of joining       Address
//
//
//Ashish          1994                          64C- WallsStreat
//
//
//
//Sam             2000                             68D- WallsStreat
//
//
//
//John            1999                          26B- WallsStreat

class employee
{
        String name;
        int year;
        String address;

 employee(String name,int year,String address)
{
        this.name=name;
        this.year=year;
        this.address=address;

 }

void disp()
{
        System.out.println(name+"\t "+   "\t"+year+  "\t\t"+  address);
}
}

public class Q7 {
```

```
	public static void main(String[] args) {
		System.out.println("Name		Year of joining		Address ");
		employee emp1 =new employee("Ashish",1994, "64C-WallsStreat" );
		emp1.disp();
		employee emp2 =new employee("Sam",2000, "68D-WallsStreat" );
		emp2.disp();
		employee emp3 =new employee("John",1999, "28B-WallsStreat" );
		emp3.disp();
	}

}
```

OP

```
Name            Year of joining        Address
Ashish           1994                 64C- WallsStreat
Sam              2000                 68D- WallsStreat
John             1999                 28B- WallsStreat
```

```
package assignment2;

import java.util.Scanner;

//Q8 WAP to input basic salary of an employee and calculate its
//Gross salary according to following:
//
//
//Basic Salary <= 10000 : HRA = 20%, DA = 80%
//
//
//Basic Salary <= 20000 : HRA = 25%, DA = 90%
//
//
//Basic Salary > 20000 : HRA = 30%, DA = 95%

public class Q8 {

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

```
            int hra=0;
            int da=0;
            Scanner sc =new Scanner(System.in);
            System.out.println("Enter Salary for employee : ");
            salary =sc.nextInt();
            if(salary <= 10000)
            {
                  hra=salary/5;
                  da=(salary/100)*(80);
            }
            else if(salary<=20000)
            {
                  hra=salary/4;
                  da=(salary/100)*(90);

            }
            else if(salary > 20000)
            {
                  hra=(salary/100)*(30);
                  da=(salary/100)*(95);
            }
            System.out.println("Gross salary of an employee  :
"+(salary+hra+da));

      }

}
```

OP

```
Enter Salary for employee :
25000
Gross salary of an employee  : 56250

Enter Salary for employee :
15000
Gross salary of an employee  : 32250

Enter Salary for employee :
9000
Gross salary of an employee  : 18000
```

```java
package assignment2;

//Q 9 wap to print even numbers between 10 to 20
public class Q9 {

	public static void main(String[] args) {

		int num;
		System.out.println("Even numbers between 10 to 20 : ");
		for(num=10;num<=20;++num) {
		if(num%2==0)
		{
			System.out.println(num);
		}
	 }

  }
}
```

```
OP
Even numbers between 10 to 20 :
10
12
14
16
18
20
```

```java
package assignment2;

import java.util.Scanner;

//Q10  wap to print even numbers between 10 to 20Q  9 wap to check if a number is prime or not
public class Q10 {

	public static void main(String[] args) {
		int i, n;
		 Scanner s=new Scanner(System.in);
```

```
            System.out.println("Enter a Number to check whether it
is prime or not");
             n=s.nextInt();
             if (n == 0 || n == 1)
            System.out.println("Not a Prime Number");
             for (i = 2; i <= n / 2; i++)
             {
             if (n % i == 0) {
             System.out.println("Not a prime number ");
             break;
             }
             else
             {
             System.out.println("Prime number ");
             break;
             }
             }
      }

}
```

```
OP
Enter a Number to check whether it is prime or not
25
Prime number

Enter a Number to check whether it is prime or not
26
Not a prime number
```

```
package assignment2;
//Q 11 wap to reverse a given digit   123   321
public class Q11 {

      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);
      }

}
```

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