Name – syed mubashshir ali

```java
//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 sum = 0, count = 0;
for (int i = 101; i < 200; i++)
{
if (i % 7 == 0)
{
sum = sum + i;
count++;
}
}
System.out.println("The Sum of the number between 100 to 200      which are
divisible by 7 is: "+sum);
System.out.println("Total numbers between 100 to 200 which are divisible by 7 is:
"+count);
}


}
```

Output

```
The Sum of the number between 100 to 200 which are divisible by 7 is: 2107
Total numbers between 100 to 200 which are divisible by 7 is: 14
```

```java
//Q 2 Write a program in java that ask three numbers from user and print the
greatest among three ?.


import java.util.Scanner;

public class Q2 {
public static void main(String[] args) {
int a;
int b;
int c;

Scanner s= new Scanner(System.in);
```

```java
System.out.println("enter  num1");
a= s.nextInt();
System.out.println("enter  num2");
b= s.nextInt();
System.out.println("enter  num3");
c= s.nextInt();
int largest = c > (a > b ? a : b) ? c : ((a > b) ? a : b);
System.out.println("The largest number is: "+largest);


}
```

Output

```
enter  num1
10
enter  num2
9
enter  num3
8
The largest number is: 10
```

Output

```java
//Q3. WAP to find  ASCII value of a character ?
public class Q3 {
public static void main(String[] args) {

char ch = 'f';
int ascii = ch;
// You can also cast char to int
int castAscii = (int) ch;

System.out.println("The ASCII value of " + ch + " is: " + ascii);
System.out.println("The ASCII value of " + ch + " is: " + castAscii);
}
}
```

Output

```
The ASCII value of f is: 102
The ASCII value of f is: 102
```

```java
//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[]){
System.out.println("Enter a character :");
Scanner sc = new Scanner(System.in);
char ch = sc.next().charAt(0);
if(ch == 'a'|| ch == 'e'|| ch == 'i' ||ch == 'o' ||ch == 'u'||ch == ' '){
            System.out.println("Given character is an vowel");
        }else{
```

```
            System.out.println("Given character is a consonant");
        }
    }
}
```

Output

```
Enter a character :
c
Given character is a consonant
```

```java
//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)
{
int num;
Scanner s = new Scanner(System.in);
System.out.println("Enter a num :");
num= s.nextInt();
if(num>0)
{
System.out.println("The number is positive.");
}

else if(num<0)
{
System.out.println("The number is negative.");
}

else
{
System.out.println("The number is zero.");
}
}
}
```

Output

```
Enter a num :
10
The number is positive.
```

```java
//Q6 WAP for swapping two numbers without using third variable?
import java.util.Scanner;

public class Q6 {
public static void main(String[] args)
{
int x ;
int y ;

Scanner s = new Scanner(System.in);
System.out.println("Enter a num 1:");
```

```java
x= s.nextInt();
System.out.println("Enter a num 2:");
y= s.nextInt();


System.out.println("before swaping:"
+ " x = " + x + ", y = " + y);
x = x * y;
y = x / y;
x = x / y;

System.out.println("After swaping:"
+ " x = " + x + ", y = " + y);
}
}
```

Output

```
Enter a num 1:
2
Enter a num 2:
3
before swaping: x = 2, y = 3
After swaping: x = 3, y = 2
```

```java
/Q7 Write a program that would print the information (name,
//year of joining, salary, address) of three employees by creating a class named
//'Employee'?

import java.util.Scanner;
public class Q7 {
public static void main(String[] args) {

Scanner s= new Scanner(System.in);
System.out.println("enter the number of employee deatil fill  :");
int j= s.nextInt();
for (int i=1; i<=j; i++) {
System.out.println("enter the name of emplyee :");
String name= s.next();
System.out.println("enter  emplyee address :");
String add= s.next();
System.out.println(" emplyee year of joining :");
short year= s.nextShort();
System.out.println(" emplyee salary :");
float salary= s.nextFloat();
System.out.println();
System.out.println(" Name \t\t year of joining \t\tsalary \t\taddress");
System.out.println(name +" \t\t\t " +year+" \t\t\t " +salary+" \t"+add);


}


    }
}
```

Output

enter the number of employee deatil fill :
3
enter the name of emplyee :
ashish
enter emplyee address :
64c-wallstreets
 emplyee year of joining :
1994
 emplyee salary :
20000

Name	year of joining	salary	address
ashish	1994	20000.0	64c-wallstreets

enter the name of emplyee :
sam
enter emplyee address :
68c-wallsstreet
 emplyee year of joining :
2000
 emplyee salary :
22000

Name	year of joining	salary	address
sam	2000	22000.0	68c-wallsstreet

enter the name of emplyee :
john
enter emplyee address :
26b-wallsstreet
 emplyee year of joining :
1999
 emplyee salary :
18000

Name	year of joining	salary	address
john	1999	18000.0	26b-wallsstreet

```java
//Q8 WAP to input basic salary of an employee and calculate its
//Gross salary according to following?


import java.util.Scanner;
public class Q8 {
public static void main(String[] args) {
int salary;
int gross;
int hra;
int da;
Scanner s= new Scanner(System.in);
System.out.println("enter  salary");
salary= s.nextInt();

if(salary<=10000) {
hra= (int)((0.2)*salary);
```

```java
System.out.println("hra is:"+hra);
da= (int)((0.8)*salary);
System.out.println("da is:"+da);
gross= salary+hra+da;
System.out.println("gross is:"+gross);
}

else  if(salary<=20000) {
hra= (int)((0.25)*salary);
System.out.println("hra is:"+hra);
da= (int)((0.9)*salary);
System.out.println("da is:"+da);
gross= salary+hra+da;
System.out.println("gross is:"+gross);

}

else  if(salary>20000) {
hra= (int)((0.30)*salary);
System.out.println("hra is:"+hra);
da= (int)((0.95)*salary);
System.out.println("da is:"+da);
gross= salary+hra+da;
System.out.println("gross is:"+gross);

}

}

}
```

Output

```
enter  salary
10000
hra is:2000
da is:8000
gross is:20000
```

```java
//Q9    wap to print even numbers between 10 to 20?
public class Q9
{
public static void main(String args[])
{
int number=20;
System.out.print("List of even numbers from 1 to "+number+": ");
for (int i=1; i<=number; i++)
{

if (i%2==0)
{
System.out.print(i + " ");
}
}
}
}
```

Output

List of even numbers from 1 to 20: 2 4 6 8 10 12 14 16 18 20

```java
//Q10 wap to check if a number is prime or not?

import java.util.Scanner;

public class Q10 {
public static void main(String args[]){

int i,m=0,f=0;
Scanner s = new Scanner(System.in);
System.out.println("Enter a num 1:");
int n= s.nextInt();
m=n/2;
if(n==0||n==1){
System.out.println(n+" is not prime number");
}else{
for(i=2;i<=m;i++){
if(n%i==0){
System.out.println(n+" is not prime number");
f=1;
break;
}
}
if(f==0)  { System.out.println(n+" is prime number"); }
}
}
}
```

Output

```
Enter a num 1:
2
2 is prime number
```

```java
//Q 11 wap to reverse a given digit   123   321?
public class Q11 {


public static void main(String[] args) {

int n;
for(n=123;  n!= 0;) {
System.out.print(n%10);
n= n/10;
}
}
```

Output

```
321
```