

Chapter 4 Practice Set Questions by Munawar

Questions

1. What will be the output of this program :

```
Int a=18;
```

```
If (a=20)
```

```
System.out.println("equal to 20");
```

```
Else
```

```
System.out.println("Not equal to 20");
```

Solution

```
//question 1
int a=18;
if(a=20) {
    System.out.println("It is equal to 20");
}
else {
    System.out.println("not equal to 20");
}
```

It is raised the error

2. Write a program to find out whether a student is pass or fail; if requires total 40% and at least 33% in each subject to pass. Assume 3 subjects and take marks as an input from the user.

Solution

```
//Question 2
byte m1,m2,m3;
Scanner sc=new Scanner(System.in);
System.out.println("Enter your Mark in Physics");
```

```

m1=sc.nextByte();

System.out.println("Enter your Mark in Biology ");
m2=sc.nextByte();

System.out.println("Enter your Mark in Computer");
m3=sc.nextByte();

float average=(m1+m2+m3)/3.0f;
System.out.println("Your over all percentage"+average);
if (average>4 && m1>=33 && m2>=33 && m3>=33){
    System.out.println("Congratulations , You have been promoted");
}
else {
    System.out.println("Sorry You have not been promoted Please try again ");
}

```

3. Calculate income tax paid by an employee to the government as per the sale mentioned below.

Income	Sale	Tax
2.5l –	5.0l	5%
5.0l –	10.0l	20%
Above	10.0l	5%

Note that there is no tax below 2.5l. Take input amount as an input the user.

Solution

```

//Question 3
Scanner sc=new Scanner(System.in);
System.out.println("Enter your income");
float income=sc.nextFloat();
float tax=0;
if (income<=2.5){
    tax=tax+0;
}
else if (income<2.5f && tax<=5f){
    tax=tax+0.05f*(income-2.5f);
}
else if (income<5f && tax<=10f){
    tax=tax+0.05f*(5.0f-2.5f);
    tax=tax+0.05f*(income-5f);
}
else if (income>10f){
    tax=tax+0.05f*(5.0f-2.5f);
    tax=tax+0.05f*(10.f-5f);
}

```

```
        tax=tax+0.05f*(income-10.0f);  
    }  
    System.out.println("The total tax paid by employee is "+tax);
```

4. Write a program to find out the day of the week given the number [1 for Monday 2 for Tuesday and 6 on]

Solution

```
//Question 4  
Scanner sc=new Scanner(System.in);  
System.out.println("Enter 1 to 7 --");  
int day=sc.nextInt();  
switch (day){  
    case 1:  
        System.out.println("Monday");  
        break;  
    case 2:  
        System.out.println("Tuesday");  
        break;  
    case 3:  
        System.out.println("Wednesday");  
        break;  
    case 4:  
        System.out.println("Thursday");  
        break;  
    case 5:  
        System.out.println("Friday");  
        break;  
    case 6:  
        System.out.println("Saturday");  
        break;  
    case 7:  
        System.out.println("Sunday");  
        break;  
    default:  
        System.out.println("No day");  
}
```

5. Write a program to find whether a year entered by the user is a leap year or not.

Solution

Self-question

6. Write a program to find out the type of website from the url.

.com ----- > commercial website

.org -----> Organizational website

.pk ----- > Pakistani website

Solution

```
//Question 6
Scanner sc=new Scanner(System.in);
String website=sc.next();

if (website.endsWith(".com")){
    System.out.println("This is a commercial website");
}
else if (website.endsWith(".pk")){
    System.out.println("This is a Pakistani website");
}
else if (website.endsWith(".org")){
    System.out.println("This is an Organizational website");
}
else {
    System.out.println("No website");
}
```

Source code:

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

//        //question 1
//        int a=18;
//        if(a=20){
//            System.out.println("It is equal to 20");
//        }
//        else {
//            System.out.println("not equal to 20");
//        }

//        //Question 2
//        byte m1,m2,m3;
//        Scanner sc=new Scanner(System.in);
```

```

//      System.out.println("Enter your Mark in Physics");
//      m1=sc.nextByte();
//
//      System.out.println("Enter your Mark in Biology ");
//      m2=sc.nextByte();
//
//      System.out.println("Enter your Mark in Computer");
//      m3=sc.nextByte();
//
//      float average=(m1+m2+m3)/3.0f;
//      System.out.println("Your over all percentage"+average);
//      if (average>4 && m1>=33 && m2>=33 && m3>=33){
//          System.out.println("Congratulations , You have been promoted");
//      }
//      else {
//          System.out.println("Sorry You have not been promoted Please try
again ");
//      }

//      //Question 3
//      Scanner sc=new Scanner(System.in);
//      System.out.println("Enter your income");
//      float income=sc.nextFloat();
//      float tax=0;
//      if (income<=2.5){
//          tax=tax+0;
//      }
//      else if (income<2.5f && tax<=5f){
//          tax=tax+0.05f*(income-2.5f);
//      }
//      else if (income<5f && tax<=10f){
//          tax=tax+0.05f*(5.0f-2.5f);
//          tax=tax+0.05f*(income-5f);
//      }
//      else if (income>10f){
//          tax=tax+0.05f*(5.0f-2.5f);
//          tax=tax+0.05f*(10.f-5f);
//          tax=tax+0.05f*(income-10.0f);
//      }
//      System.out.println("The total tax paid by employee is "+tax);
//

//      //Question 4
//      Scanner sc=new Scanner(System.in);
//      System.out.println("Enter 1 to 7 --");
//      int day=sc.nextInt();
//      switch (day){
//          case 1:
//              System.out.println("Monday");
//              break;
//          case 2:
//              System.out.println("Tuesday");
//              break;
//          case 3:
//              System.out.println("Wednesday");

```

```

//          break;
//      case 4:
//          System.out.println("Thursday");
//          break;
//      case 5:
//          System.out.println("Friday");
//          break;
//      case 6:
//          System.out.println("Saturday");
//          break;
//      case 7:
//          System.out.println("Sunday");
//          break;
//      default:
//          System.out.println("No day");
//  }

//Question 6
Scanner sc=new Scanner(System.in);
String website=sc.next();

if (website.endsWith(".com")){
    System.out.println("This is a commercial website");
}
else if (website.endsWith(".pk")){
    System.out.println("This is a Pakistani website");
}
else if (website.endsWith(".org")){
    System.out.println("This is an Organizational website");
}
else {
    System.out.println("No website");
}
}
}

```

Thank You