Basic If Else Assignment 0 With Solution

Program 1: Write a java program to check if a number is even or odd.

Input: var=10;

Output: 10 is an even no

Input: var=37;

Output: 37 is an odd no

Input: var = 0

Output: ???

Solution 1:

```
class Solution1{

   public static void main(String[] args){

      int var=10;
      if(var%2==0){

         System.out.println(var+" is an Even Number");
      }else{

         System.out.println(var+" is an Odd Number");
      }

   }
}
```

Program 2: Write a java program, take a number, and print whether it is less than 10 or greater than 10.

Input1: var=5

Output: 5 Is Less than 10.

Input2: var=16

Output: 16 Is greater than 10.

Input3 : var=10

Output: ??

Solution 2:

```
class Solution2{

   public static void main(String[] args){

      int var=5;

      if(var<10){

         System.out.println(var+" is less than 10");

      }else if(var>10){

         System.out.println(var+" is Greater than 10");

      }else{

         System.out.println(var+" is equal to 10");
      }

   }
}
```

Program 3: Write a java program, take a number, and print whether it is positive or negative.

Input: num = 5

Output: 5 is a positive number

Input: num = -9

Output: -9 is a negative number

Input: num = 0

Output: ???????

Solution 3:

```
class Solution3{
   public static void main(String[] args){

      int var=5;

      if(var<0){
```

```
        System.out.println(var+" is Negative Number");

    }else if(var>0){

        System.out.println(var+" is Positive Number");

    }else{
        System.out.println(var+" is Neither Positive nor Negative Number");
    }

  }
}
```

Program 4: Write a java program that checks a number from 0 to 5 and prints its spelling, if the number is greater than 5 print the number is greater than 5

Input1 : var= 4
Output: four

Input2 : var = 6
Output: number is greater than 5

Input3 : var = -6
Output: ???

Solution 4:

```
class Solution4{
  public static void main(String[] args){

    int var=5;

    if(var<0){

        System.out.println(var+" is Less Than Zero");

    }else if(var==0){

        System.out.println("Zero");

    }else if(var==1){

        System.out.println("One");
```

```
        }else if(var==2){

            System.out.println("Two");

        }else if(var==3){

            System.out.println("Three");

        }else if(var==4){

            System.out.println("Four");

        }else if(var==5){

            System.out.println("Five");

        }else{
            System.out.println(var+" is Greater than 5");
        }

    }
}
```

Program 5: Write a java program, in which according to month no print the no. of days in that month

Input : month = 7
Output: July has 31 days

Input : month = 13
Output: Invalid month

Input : month = -6
Output: ???

Solution 5:

```
class Solution5{
        public static void main(String[] args){

        int month=15;

        if(month<=0 || month>12){
```

```
    System.out.println("Invalid Month");
}else if(month==1){
    System.out.println("January has 31 days");
}else if(month==2){
    System.out.println("February has 28 or 29 days");
}else if(month==3){
    System.out.println("March has 31 days");
}else if(month==4){
    System.out.println("April has 30 days");
}else if(month==5){
    System.out.println("May has 31 days");
}else if(month==6){
    System.out.println("June has 30 days");
}else if(month==7){
    System.out.println("July has 31 days");
}else if(month==8){
    System.out.println("August has 31 days");
}else if(month==9){
    System.out.println("September has 30 days");
}else if(month==10){
    System.out.println("October has 31 days");
}else if(month==11){
```

```
            System.out.println("November has 30 days");

        }else if(month==12){

            System.out.println("December has 31 days");

        }

    }
}
```

Program 6: write a program to find a maximum between three numbers

inputs1:
num1 = 1
num2 = 2
num3 = 3
Output: 3 is the maximum between 1, 2 and 3

inputs2:
num1 = 1
num2 = 4
num3 = 3
Output: 4 is the maximum between 1, 4 and 3

inputs3:
num1 = 42
num2 = 32
num3 = 42
Output: ?????

Solution 6:

```
class Solution6{
    public static void main(String[] args){

        int num1=1;
        int num2=2;
        int num3=3;

        if(num1>num2 && num1>num3){
```

```
        System.out.println(num1+" is Maximum between"+num1+", "+num2+" and "+num3);
    }else if(num2>num1 && num2>num3){
        System.out.println(num2+" is Maximum between"+num1+", "+num2+" and "+num3);
    }else if(num3>num1 && num3>num2){
        System.out.println(num3+" is Maximum between"+num1+", "+num2+" and "+num3);
    }else if(num1>num2 && num1==num3){
        System.out.println(num1+" is Greater Than "+num2+" and Equal to "+num3);
    }else if(num2>num3 && num2==num1){
        System.out.println(num2+" is Greater Than "+num3+" and Equal to "+num1);
    }else if(num3>num1 && num3==num2){
        System.out.println(num3+" is Greater Than "+num1+" and Equal to "+num2);
    }else{
        System.out.println("All Numbers Are Equal");
    }
  }
}
```

Program 7: Calculate profit or loss.
Write a program that takes the cost price and selling price (take it hardcoded) and calculates its profit or loss

input1:
sellingPrice = 1200
costPrice = 1000
Output: profit of 200

input2:

sellingPrice = 300
costPrice = 500
Output: loss of 200

input3:
sellingPrice = 900
costPrice = 900
Output: ???

Solution 7:

```
class Solution7{

   public static void main(String[] args){

      int selling_price=300;
      int cost_price=500;

      if(selling_price > cost_price){

         System.out.println("Profit of "+(selling_price-cost_price));

      }else if(selling_price<cost_price){

         System.out.println("loss of "+(cost_price-selling_price));

      }else{
         System.out.println("No loss No profit");
      }

   }
}
```

Program 8: Write a program to check day number(1-7) and print the corresponding day of week

Input1 : 1
Output: Monday

Input2: 6
Output: Saturday

Input3: 8

Output: ????????

Solution 8:

```
class Solution8{
   public static void main(String[] args){

      int day=5;

      if(day<1 && day>7){

         System.out.println("Invalid Day Number");

      }else if(day==1){

         System.out.println("Monday");

      }else if(day==2){

         System.out.println("Tuesday");

      }else if(day==3){

         System.out.println("Wednesday");

      }else if(day==4){

         System.out.println("Thursday");

      }else if(day==5){

         System.out.println("Friday");

      }else if(day==6){

         System.out.println("Saturday");

      }else{
         System.out.println("Sunday");
      }

   }
}
```

Program 9: Write a program in java to accept three numbers and check whether they are Pythagorean triplets or not

example (what is a Pythagorean triplet):
a=3,b=4,c=5
if
a*a+b*b=c*c
then
its pythagorean triplet
else
not a Pythagorean triplet

input1:
a=3,b=4,c=5
Output: it is a Pythagorean triplet

input2:
a=1, b=6,c=9
Output: It is not a Pythagorean triplet

input3:
a=2, b=2,c=2
Output: ?????

Solution 9:

```
class Solution9{
   public static void main(String[] args){

      int a=3, b=4, c=5;

      if(a*a==b*b+c*c || b*b==a*a+b*b || c*c==a*a+b*b){

         System.out.println("Triangle Is Pythagorean Triplet");

      }else{

         System.out.println("Triangle is Not a Pythagorean Triplet");

      }

   }
}
```

Program 10: Write a unique real-time example of If ElseIf Else Ladder

Solution 10:

```
class Solution10{

    public static void main(String[] args){

        float money=1500.00f;

        if(money==0.00f){

            System.out.println("Don't Go Anywhere keep starving");

        }else if(money>=700.00f  &&  money<5000.00f){

            System.out.println("party at Barbeque Nation");

        }else if(money>=5000.00f){

            System.out.println("Dine in 5 star");

        }else{

            System.out.println("monthly mess");
        }
    }
}
```