ASSIGNMENT 16

Q1)Consider the following code snippet

```
public class CheckMultipleMain {
public void show(int number1) {
   if (number1 >= 0)
      if (number1 == 0)
        System.out.println("first");
   else
        System.out.println("second");
   System.out.println("Third");
}

public static void main(String[] args) {
   CheckMultipleMain c = new CheckMultipleMain();
   c.show(3);
}
```

second Third

Q2 Using Only spaces and line breaks, reformat the above 1)Code snippet to make control flow easier to understand

```
public class CheckMultipleMain {
  public void show(int number1) {
    if (number1 >= 0) {
        System.out.println("first");
      }
      else {
            System.out.println("second");
      }
      System.out.println("Third");
    }
    public static void main(String[] args) {
      CheckMultipleMain c = new CheckMultipleMain();
      c.show(3);
    }
}
```

```
}
```

Q3 Convert the following if-else-if code into switch case for temperature

```
if (var==1)
  System.out.println("low");
else if(var==2)
  System.out.println("medium");
else if(var==3)
  System.out.println("high");
else
  System.out.println("abnormal");
Answer
public class Temprature {
 public void TempCheck(int var) {
   switch (var) {
      case 1:
        System.out.println("low");
        break;
      case 2:
        System.out.println("medium");
        break;
      case 3:
        System.out.println("high");
        break;
      default:
        System.out.println("abnormal");
        break;
   }
  public static void main(String[] args) {
   Temprature c = new Temprature();
   c.TempCheck(2);
  }
```

```
medium
```

Process finished with exit code 0

Q4: Rewrite the following program code using suitable 'if' command

```
switch (m) {
    case 0:
        x=x+2
        System.out.println("X = "+x);
        break;
    case 1:
        x=x+4
        System.out.println("X = "+x);
        break;
    case 2:
        x=x+6
        System.out.println("X = "+x);
        break;
}
```

output

```
public void AddtionValue(int m) {
    if (m == 0) {
        x = x + 2
        System.out.println("X = " + x);
    }
    if(m == 1) {
        x = x + 4
        System.out.println("X = " + x);
    }
    if(m == 2) {
        x = x + 6
        System.out.println("X = " + x);
    }
}
```

Q5) Take two input values from the user and print the greatest among them

```
import java.util.Scanner;

class GreaterValueCheck
{
   public void CheckGreatestValue(int first,int second) {
        int result=first>second?first:second;
        System.out.println(result+" is greater than "+((first+second)-result));
    }
}

public class CheckMultipleMain {

   public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        GreaterValueCheck c = new GreaterValueCheck();
        int first = s.nexInt();
        int second = s.nexInt();
        c.CheckGreatestValue(first,second);
   }
}
```

```
8
8 is greater than 4
Process finished with exit code 0
```

Q6 Take input of age of 3 people by user and determine oldest and youngest among them.(by applying age criteria)

```
import java.util.Scanner;

class FindOldAndYoung
{
   public void OldestAndYoungest(int first,int second,int third) {
     int oldest=first>second?((first>third)?first:third):(second>third)?second:third;
     int youngest=first<second?((first<third)?first:third):(second<third)?second:third;
     System.out.println("Oldest is "+oldest+"\n youngest is "+youngest);
   }
}</pre>
```

```
public class CheckMultipleMain {
  public static void main(String[] args) {
    Scanner s=new Scanner(System.in);
    FindOldAndYoung c = new FindOldAndYoung();
    int firstAge = s.nextInt();
    int secondAge = s.nextInt();
    int ThirdAge = s.nextInt();
    c.OldestAndYoungest(firstAge,secondAge,ThirdAge);
  }
}
 Oldest is 18
   youngest is 10
Q7 Perform below operations:
1)print below data:using any loop and jumping statement
 Monday
 Tuesday
 webnesday
 Friday
 Saturday
 Sunday
OUTPUT
class Week
 public void PrintWeek()
   String\ WeekArray[] = \{"Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"\};
   for(String day: WeekArray)
```

```
Monday
Tuesday
Wednesday
Friday
Saturday
Sunday
```

2)Out of 7 days in a week, Skip only Today's Day

```
class Week
{
  public void PrintWeek(String today)
  {
    String WeekArray[]={"Monday","Tuesday","Wednesday","Thursday","Friday","Saturday","Sunday"};
  for(String day : WeekArray)
    {
       if(day.equals(today))
            continue;
       System.out.println(day);
    }
  }
  public class CheckMultipleMain {
    public static void main(String[] args) {
       Week w = new Week();
       w.PrintWeek("Saturday");
    }
}
```

```
}
```

```
Monday
Tuesday
Wednesday
Thursday
Friday
Sunday
```

3) Out of 31,print date till today(passed till current date like for jan 1-20 as today is 20th Jan)

```
package DAY_2_20_07_2022_JAVA;
import java.util.Calendar;
import java.util.Date;
import java.util.Formatter;
class DayDate{
 public void PrintDate(int currentDate)
    Calendar calendar = Calendar.getInstance();
    Formatter fmt = new Formatter();
    fmt.format("%tB",calendar);
    String today =fmt.toString();
    for (int datte=1; datte<=currentDate; datte++)
      if(datte!=currentDate)
      System.out.println(today+" - "+datte);
         System.out.println("today is "+currentDate+"th"+" "+ today);
 }
public class CheckMultipleMain {
  public static void main(String[] args) {
    DayDate d= new DayDate();
    d.PrintDate(22);
```

```
July - 1
July - 2
July - 3
July - 4
July - 5
July - 6
July - 7
July - 8
July - 9
July - 10
July - 11
July - 12
July - 13
July - 13
July - 15
July - 15
July - 16
July - 16
July - 17
July - 18
July - 19
July - 19
July - 20
July - 20
July - 21
today is 22th July
```

Q8 Diamond Pattern

```
class Pattern
{
    public void printDiamond()
    {
        int k=-1;
        for(int i=0;i<=8;i++)
        {
        int i1 = i <= 4 ? k++ : k--;
        for(int j=0;j<=9 ;j++)
        {
            if(j>=5-k && j<=5+k)
            {
                  System.out.print("*");
            }
            else
            {
                  System.out.print(""");
            }
            System.out.println("");
        }
}</pre>
```

```
}
public class CheckMultipleMain {

public static void main(String[] args) {
  Pattern p= new Pattern();
  p.printDiamond();
}
```