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package Assignment1;

import java.util.Scanner;
public class Botv1
{
	public static void main(String[] args)
	{
		Scanner keyboard = new Scanner(System.in);
		int count_1=0;
		int n=0;
		do{
			System.out.print("Enter the temperature (in Farhenheit): ");
			double temp = keyboard.nextDouble();

			if(temp>=-50 && temp<32) n=1; // creating a range of desirable
weather to recommend activities
			if(temp>=32 && temp<59) n=2;
			if(temp>=59 && temp<82) n=3;
			if(temp>=82 && temp<100) n=4;
			if(temp>=100 && temp<150) n=5;


			if(temp<-50 || temp>150) // checking the user input is within a
given range
			{
				System.out.println("Your Input is out of Range");
				System.out.println("Enter a temperature between -50 and
150");
				count_1=1; // indicates the user input didn't satisfy the
system
			}
			else
			{
				count_1=0;// indicates the user input satisfied the system
				int count_2=0;
				do{
					System.out.println("Enter the status of today's
weather");
					String weather = keyboard.next();
					weather.toLowerCase();// converting the user input to
lower case in order to compare it

						switch (weather) {// introducing switch case in
order to suggest activity based on entered weather
						case "sunny" :
							switch (n) {// introducing switch case in
order to suggest activity based on entered temperature
							case (1):
								System.out.println("Its freezing!!
please stay inside and wear warm cloths");
							break;
							case (2):
								System.out.println("Its cold!!
please wear warm cloths");
							break;
							case (3):
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                                                System.out.println("The weather is
pleasant!! Wear T shirt and shorts and go for a walk");
                                          break;
                                          case (4):
                                                System.out.println("Its Hot!! wear
light cloths and hydrate yourself");
                                          break;
                                          case (5):
                                                System.out.println("The weather is
extreame!! wear light cloths, Stay inside and be safe");
                                          break;
                                          }
                                          count_2=0;// indicates the user input
satisfied the system
                                          break;
                                    case "windy" :
                                          switch (n) {
                                          case (1):
                                                System.out.println("Its freezing!!
please stay inside and wear warm cloths");
                                          break;
                                          case (2):
                                                System.out.println("Its cold!!
please wear warm cloths, stay inside if possible");
                                          break;
                                          case (3):
                                                System.out.println("The weather is
pleasant!! Wear full sleeves");
                                          break;
                                          case (4):
                                                System.out.println("Its Hot!! wear
light cloths and hydrate yourself");
                                          break;
                                          case (5):
                                                System.out.println("The weather is
extreame!! Stay inside and be safe");
                                          break;
                                          }
                                          count_2=0;
                                          break;
                                    case "snowy" :
                                          switch (n) {
                                          case (1):
                                                System.out.println("Its freezing!!
please stay inside and wear warm cloths");
                                          break;
                                          case (2):
                                                System.out.println("Its cold!!
please wear warm cloths");
                                          break;
                                          default:
                                                System.out.println("Hmm!! Your
entered temprature and weather doesn't make sense");// executes if temperature and
weather doesn't scientifically make sense
                                          }
                                          count_2=0;
                                          break;
                                    case "rainy" :
                                          switch (n) {
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                                        case (2):
                                              System.out.println("Its cold!!
please wear warm cloths and carry an umbrella");
                                        break;
                                        case (3):
                                              System.out.println("The weather is
pleasant!! wear full sleeves and carry an umbrella");
                                        break;
                                        default:
                                              System.out.println("Hmm!! Your
entered temprature and weather doesn't make sense");
                                        }
                                        count_2=0;
                                        break;
                                  case "cloudy" :
                                        switch (n) {
                                        case (1):
                                              System.out.println("Its freezing!!
please stay inside and wear warm cloths");
                                        break;
                                        case (2):
                                              System.out.println("Its cold!!
please wear warm cloths");
                                        break;
                                        case (3):
                                              System.out.println("The weather is
pleasant!! Wear T shirt and shorts and go for a walk");
                                        break;
                                        case (4):
                                              System.out.println("Its Hot!! wear
light cloths and hydrate yourself");
                                        break;
                                        default:
                                              System.out.println("Hmm!! Your
entered temprature and weather doesn't make sense");
                                        }
                                        count_2=0;
                                        break;
                                  default :
                                        count_2=1;// indicates the user input
didn't satisfy the system
                                        System.out.println("Invalid type of
weather input");// executes if entered weather is other than accepted string
                                  }
                              }while(count_2==1);// loop runs until user input is
not one of the weather condition accepted by the system
                  }
            }while(count_1==1);// loop runs until user input doesn't fall under a
range
      }
}
```