**Assignment – 6**

**Decision Control**

**1. x = int(input("Enter a number \n"))**

**if x>0:**

**print("Positive")**

**if x<=0:**

**print("Non-Positive")**

**2. x = int(input("Enter a number \n"))**

**if x%5==0:**

**print("This is divisible by 5")**

**else:**

**print("This is not divisible by 5")**

**3. x = int(input("Enter a number \n"))**

**if x%2==0:**

**print("The number is even")**

**else:**

**print("The number is odd")**

**4. x = int(input("Enter a number \n"))**

**y = int(input("Enter a number \n"))**

**if x>y:**

**print("The Greater number is", x)**

**elif x<y:**

**print("The Greater number is", y)**

**else:**

**print("The Greater number is", x)**

**5. print("Enter any two Words")**

**a,b = input(), input()**

**if a<b:**

**print(a,b)**

**else:**

**print(b,a)**

**6. x = int(input("Enter any Number"))**

**if 99<x<1000:**

**print("The number is three digit number")**

**else:**

**print("The number is not a three digit number")**

**7. x = int(input("Enter any Number \n"))**

**if x>0:**

**print("The number is positive")**

**elif x==0:**

**print("The number is neither positive nor negative")**

**else:**

**print("Negative number")**

**8. a = int(input("Enter a number"))**

**b = int(input("Enter a number"))**

**c = int(input("Enter a number"))**

**d=b\*\*2-4\*a\*c**

**if d>0:**

**print("Real and distinct roots")**

**elif d==0:**

**print("Real and equal root")**

**else:**

**print("Imaginary roots")**

**9. year = int(input("Enter year \n"))**

**if year%400==0 or year%100!=0 and year%4==0:**

**print("Its a leap year")**

**else:**

**print("Not a leap year")**

**10. x = int(input("Enter a number \n"))**

**y = int(input("Enter a number \n"))**

**z = int(input("Enter a number \n"))**

**if x>y>z:**

**print("x is greater")**

**elif y>x>z:**

**print("Y is greater")**

**elif x==y==z:**

**print(x)**

**else:**

**print("z is greater")**

**11. month = int(input("Enter a number"))**

**if month in (1,3,5,7,8,10,12):**

**print("31 Days")**

**elif month in (4,6,9,11):**

**print("30 Days")**

**elif month==2:**

**print("28 and 29 Days")**

**else:**

**print("Invalid Number")**

**12. x = complex(input("Enter a number \n"))**

**print(x.real) if x.real>x.imag else print(x.imag)**