**Assignment - 7**

**Match Case**

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

**match month:**

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

**print("31 Days")**

**case month if month in (4,6,9,11):**

**print("30 Days")**

**case 2:**

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

**case \_:**

**print("Invalid Number")**

**2. print("1. Addition")**

**print("2. Substraction")**

**print("3. Multiplication")**

**print("4. Division")**

**print("Enter your Choice")**

**choice = int(input())**

**match choice:**

**case 1:**

**print("Enter two number")**

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

**c=a+b**

**print("Sum is",c)**

**case 2:**

**print("Enter two number")**

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

**c=a-b**

**print("Sum is",c)**

**case 3:**

**print("Enter two number")**

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

**c=a\*b**

**print("Sum is",c)**

**case 4:**

**print("Enter two number")**

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

**c=a/b**

**print("Sum is",c)**

**case \_:**

**print("invalid choice")**

**3. print("1. to check lengths of sides of a right angled triangle or not")**

**print("2. to check lengths of an isosceles triangle or not")**

**print("3. to check lengths of sides of a right angled triangle or not")**

**print("4. exit")**

**print("Enter your Choice")**

**choice = int(input())**

**match choice:**

**case 1:**

**print("Enter two number")**

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

**e = c\*\*2==a\*\*2+b\*\*2**

**print("Sum is",e)**

**case 2:**

**print("Enter two number")**

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

**e = 1/2\*a\*b**

**print("Sum is",e)**

**case 3:**

**print("Enter two number")**

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

**e = a==b==c**

**print("Sum is",e)**

**case 4:**

**exit()**

**case \_:**

**print("invalid choice")**

**4. x = (int(input("Enter your age \n")))**

**match x:**

**case x if x < 10:**

**print("Kid ",x)**

**case x if x < 20:**

**print("Teen ",x)**

**case x if X<40>20:**

**print("Young ",x)**

**case x if x<60>40:**

**print("Experienced ",x)**

**case x if x >=60:**

**print("Senior Citizen ",x)**

**case \_:**

**print("invalid ")**

**5. x = (int(input("Enter your age \n")))**

**match x:**

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

**print("Saurabh Shukla")**

**case x if x<0 and x%2!=0:**

**print("Prateek Jain")**

**case x if x>0 and x%2!=0:**

**print("Aditya Choudhary")**

**case \_:**

**print("invalid ")**

**6. s = input("Enter a string \n")**

**match s:**

**case s if ' ' in s:**

**print("Multiword string")**

**case s if ' ' not in s:**

**print("Single Word String")**

**print()**

**7. s = (int(input("Enter a number \n")))**

**match s:**

**case s if s>=1:**

**print("Positive")**

**case s if s<0:**

**print("Negative")**

**case s if s==0:**

**print("Zero")**

**print()**

**8. s1 = input("Enter two strings \n")**

**s2 = input("Enter two strings \n")**

**match (s1,s2):**

**case (s1,s2) if s1==s2:**

**print("Identical strings")**

**case (s1,s2) if s1>s2:**

**print("{} comes after {}".format(s1,s2))**

**case (s1,s2) if s2>s1:**

**print("{} comes after {}".format(s2,s1))**

**print()**

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

**match year:**

**case year if year%100!=0 and year%4==0:**

**print("{} is a leap year".format(year))**

**case year if year%400==0:**

**print("{} is a century leap year".format(year))**

**case year if year%100!=0 and year%4!=0:**

**print("{} is a non century non leap year".format(year))**

**case year if year%100==0:**

**print("{} is a century non leap year".format(year))**

**print()**

**10. s1 = input("Which colour you like \n")**

**l1 = ["yellow","blue","orange","white","black","red"]**

**for colour in l1:**

**if colour in s1:**

**c = colour**

**break**

**else:**

**c = "Other"**

**match c:**

**case "Yellow":**

**print("Monday")**

**case "blue":**

**print("Tuesday")**

**case "oonge":**

**print("Wednesday")**

**case "white":**

**print("Thudday")**

**case "black":**

**print("Friday")**

**case "red":**

**print("Saturday")**

**case "other":**

**print("Sunday")**

**print()**