Write the basic programing program with a switch case to find

1: Printing the table

2: Digit sum

3: Reverse a number

4: to Check the Armstrong number of three digits.

```java
import java.util.Scanner;

public class Assignment2 {

    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        int choice, i, tab,ch;
        do  {
            System.out.println("1.Printing the Table .\n2.Sum of Digits .\n3.Reverse a Number .\n4.Check the Armstrong number .");
    System.out.println("Enter your choice :");
    choice=scan.nextInt();
    switch(choice)
    {
    case 1:{ int num;
        System.out.println("\nEnter the number");
        num=scan.nextInt();
        System.out.println("Table of " + num + " is\n");


        for(i=1; i<=10; i++)
```

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```java
        {
         tab = num*i;
         System.out.println(num + " * " + i + " = " + tab + "\n");
        }
        }break;
case 2:{int number,sum1=0,r;
            System.out.println("\nEnter the Number");
            number=scan.nextInt();
            while(number!=0)
            {
             r=number%10;
             number=number/10;
             sum1+=r;
            }
        System.out.println("Sum of Digits : "+sum1);
        }break;
case 3: {
            int num,num1=0;
            System.out.println("\nEnter the Number");
            num=scan.nextInt();
            System.out.println("Original number : "+num);
        while(num!=0)
        {
         num1=(10*num1);
         num1+=(num%10);
         num=(num/10);
        }
                System.out.println("Reverase of a number : "+num1);
```

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```java
            }break;
case 4: {
    int n,sum=0,n2,num1;
    System.out.println("\n enter the number to check palindrome .");
    n=scan.nextInt();
    num1=n;
                    while(num1!=0)
                    {
                            n2=num1%10;
                            num1=num1/10;
                            sum+=(n2*n2*n2);
                    }
    if(n==sum)
    {
            System.out.println("The number is Armstrong");
    }
    else
            System.out.println("The number is not Armstrong");
}break;
default : System.out.println("\nEnter right choice");
break;}
System.out.println("Enter 1 to continue");
ch=scan.nextInt();
}while(ch==1);


    }
}
```