| 1. | ```no=int(input("Enter a number")) product=1 while no!=0: d=no%10 product=product*d no=no//10 print("The product of all digits",product)``` |
| :---: | :---: |
| 2. | ```no=int(input("Enter a number")) rev=0 x=no # while no!=0:  print("It is a palindrome") else: print("It is not a palindrome")``` |
| 3. | ```no=int(input("Enter a number")) sum_odd=sum_even=0 while no!=0: d=no%10 if d%2==0: sum_even=sum_even+d else: sum_odd=sum_odd+d no=no//10 print("Sum of all odd digits",sum_odd) print("Sum of all even digits",sum_even)``` |
| 4. | ```no=int(input("Enter a number")) sum=0 x=no while no!=0: d=no%10 sum=sum+d**3 no=no//10 if x==sum: print("It is an Armstrong number") else: print("It is not an Armstrong number")``` |

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| 5. | ```ans="y" sum=0 count=0 while ans=="Y" or ans=="y": no=int(input("Enter a number")) fact=1 This part of the program finds the factorial of for i in range(1,no+1):  no. print("The factorial of",no,"is",fact) ans=input("Do you wish to read more number(Y/N)?")``` |
| :---: | :---: |
| 6. | ```import math ans="y" while ans=="Y" or ans=="y": print("MENU") print("1.AREA OF A SQUARE") print("2.AREA OF A RECTANGLE") print("3.AREA OF A CIRCLE") ch=int(input(" Enter your choice:")) if ch==1: side=float(input("Enter the side:")) area=side*side print("The area of the square is",area) elif ch==2: length=float(input("Enter the length:")) breadth=float(input("Enter the breadth:")) area=length*breadth print("The area of the rectangle is",area) elif ch==3: rad=float(input("Enter the radius:")) area=math.pi*rad*rad print("The area of the square is",area) else: print("Invalid choice") ans=input("Do you wish to continue(Y/N)?")``` |
| 7. |  |

