1) Python Program to replicate bank transaction: min balance 500, ask user to the amount to withdraw, print the balance amount after withdrawal, if user enters an amount greater than balance: print:: insufficient balance. withdraw_amount=int(input("Enter Your Amount = ")) user_balance=1000 minimum_balance=500 if withdraw_amount<=minimum_balance and withdraw_amount<1000:</pre> print(withdraw_amount, "rs withdraw Successfully") print("Your current balance is = ",user_balance-withdraw_amount) elif withdraw_amount>user_balance and withdraw_amount>minimum_balance: print("insufficient balance ") elif withdraw_amount>minimum_balance: print("Minimum Balance is 500") print("Your Available Balance = ",user_balance,"rs Please keep your account balance above Rs.500 to avoid unwanted charges.") print("something went wrong try again") Enter Your Amount = 750 Minimum Balance is 500 Your Available Balance = 1000 rs Please keep your account balance above Rs.500 to avoid unwanted charges. 2) Print the greatest of the 3 numbers taken as input, print equal if all three numbers are the same number1=int(input("Enter The Value = ")) number2=int(input("Enter The Value = ")) number3=int(input("Enter The Value = ")) if number1>number2 and number1>number3: print("Number 1 is gratest") elif number2>number1 and number2>number3: print("Number 2 is gratest") elif number3>number1 and number3>number2: print("Number 3 is gratest") elif number1==number2==number3: print("All the Numbers Are same") else: print("all three numbers not equal") Enter The Value = 45 Enter The Value = 10 Enter The Value = 15 Number 1 is gratest 3 Python program to check the number taken as an input is even or odd, print invalide input if user enters anything other than integers In [75]: # using Exception Handling while True: number = int(input("Please enter The Value: ")) except ValueError: print("Please Enter A Numeric Value") continue else: break **if** number%2==0: print(number," is a Even Number") else: print(number, "is a Odd Number ") Please enter The Value: a3 Please Enter A Numeric Value Please enter The Value: 24 24 is a Even Number 4 Python program to check the score from a student ,print grades as A+ if score >= 90,A if 80 or above, B+ if 70 or above and so on... print failed if the score is below 50, if score > 100 print invalid In [91]: name=input("Enter The Student Name = :") Marks=int(input("Enter The Marks = : ")) if Marks>=90 and Marks<100:</pre> print(name, "You score A+") elif Marks<=89 and Marks>=80: print(name, "you score A ") elif Marks>70 and Marks<=80:</pre> print(name, "you got B+") elif Marks>60 and Marks<=70:</pre> print(name, "you got B") elif Marks>50 and Marks<=60:</pre> print(name, "you got C+") elif Marks>40 and Marks<=50:</pre> print(name, "you got C") elif Marks<50:</pre> print(name, "Your Fail") elif Marks>=100: print("Invalid") else: print("Some thing went Wrong") Enter The Student Name = :ajith Enter The Marks = : 99 ajith You score A+ 5. Python program to print all even/odd numbers in the range given by user print("Even Numbers odd Numbers") **for** i **in** range(2,22): **if** i%2==0: print(i,end=' \t\t\t ') **elif** i%2!=0: print(i) Even Numbers odd Numbers 2 7 10 12 13 15 14 16 17 18 19 20 In [219... b=[] c=[] **for** i **in** range(1,21): **if** i**%2**==0: b.append(i) print("Even Numbers = ",b) **for** j **in** range(1,21): **if** j%2!=0: c.append(j) Even Numbers = [2, 4, 6, 8, 10, 12, 14, 16, 18, 20] odd Numbers = [1, 3, 5, 7, 9, 11, 13, 15, 17, 19] 6. Python program to print the multiplication table of any number (number should be taken as input and user decides the end limit of the table) In [131... user=int(input("Enter The Table Number = ")) end=int(input("Enter the limit = ")) for i in range(1,end): print(i, "*", user, "=", i*user) Enter The Table Number = 7Enter the limit = 81 * 7 = 7 2 * 7 = 14 3 * 7 = 21 4 * 7 = 28 5 * 7 = 35 6 * 7 = 427 * 7 = 49 7. Find the factorial of a number taken as input using for loop In [133... | number=int(input("Enter The Value = :")) factorial=1 for i in range(1, number+1): factorial=factorial*i print(factorial) Enter The Value = :5 120 8. Find the factorial of a number taken as input using while loop In [137... number=int(input("Enter the Value = ")) fact= 1 while number >= 1: fact = fact * number number = number - 1print(""fact) Enter the Value = 5120 9. Find the sum of all even numbers between the range given by user In [224... start = int(input("Enter The value = ")) end = int(input("Enter The value = ")) for i in range(start,end): **if** i<mark>%2==0:</mark> sum_**+=**i print("sum of ", start, "to", end, "=", sum_) Enter The value = 1Enter The value = 50sum of 1 to 50 = 60010. Find the sum of all odd numbers between the rane given by user using while loop In [153... | number=int(input("Enter The Value = ")) sum_=0 i=1 while i<=number:</pre> **if** i%2!=0: sum_**+=**i i=i+1 print("sum of odd numbers between 1 to 10 = ", sum_) Enter The Value = 10 sum of odd numbers between 1 to 10 = 2511 . Print first 10 fibonacci numbers using 'for' and 'while' loops In [169... # Fibonacci sequence using while loop number = int(input ("Enter the Value = ")) x = 0y= 1 count = 0if number <= 0:</pre> print("Please enter a positive value = ") elif number == 1: print ("The Fibonacci sequence of the numbers up to", number, ": ") else: print ("The fibonacci sequence of the numbers is:") while count < number:</pre> print(x) add = x + yx = yy = addcount += 1 Enter the Value = 10 The fibonacci sequence of the numbers is: 0 1 1 2 8 13 21 34 In [187... # Fibonacci sequence using For loop number=int(input("Enter The Value = ")) if number <= 0:</pre> print("Please enter a positive value = ") elif number == 1: print ("The Fibonacci sequence of the numbers up to", number, ": ") print(x) else: a=0 count=0 for i in range(number): print(c) c=a+b b=a a=c Enter The Value = 101 1 2 3 5 8 13 21 34 12. print the following patterns In [200... # a) x=int(input("Enter the Value = ")) for i in range(1,10,2): print(x*" ",i*'*') x=x-1Enter the Value = 10* * * **** * * * * * * * ***** In [208... #b) x = 1for i in range(0, 5): **for** j **in** range(0, i+1): print(x, end=" ") x = x + 1print() 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 In [205... # c) rows = int(input("Enter the rows = ")) for i in range(1, rows): for j in range(i): print(i,end = ' ') print() Enter the rows = 101 2 2 3 3 3 4 4 4 4 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 In [209... # d) **for** i **in** range(1,10): print(i*'*') * * * ****