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**Department of Data Science and Technology**

**Practical No: 07**

**Subject: Python Programming Lab**

**MCA / Sem I** / **Python Programming [ Course Code : 217P09L102 ]**

**ROLL No:33 DATE: 18-09-2023**

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| --- | --- |
| **Aim:** | **To understand** |
| **Topics**  **Covered:** | break, continue |
| **Problem Statement:** | 1. WAPP to find the first even number and print.  2. WAPP to skip printing numbers divisible by 3 within a for loop.  3. WAPP to terminate a while loop when the user enters a specific input (e.g.,"exit").  4. WAPP to skip specific values (e.g., negative numbers) when iterating through a list.  5. WAPP to find and print all prime numbers from 1 to 50. Use a for loop and the break statement to optimize the search for prime numbers.  6. WAPP that takes a list of integers and prints all positive numbers, skipping negative ones using the continue statement.  7. WAPP that asks the user to enter a password. If the password contains at least one uppercase letter, one lowercase letter, one digit, and is at least 8 characters long, print "Password accepted." Otherwise, print an appropriate message and continue asking for a password until a valid one is entered.  8. WAPP that takes a list of numbers and a sum limit. Print the numbers in the list one by one until their sum exceeds the limit, then terminate the loop using the break statement.  9. WAPP that takes a list of numbers and prints unique values (skipping duplicates) using the continue statement. |
| **Theory:** |  |
| **Code:** | 1.  #finding the first even number  myList = [1,23,5,3,4,7]  for i in myList:  if i%2 == 0:  print("First even number for list is :",i)  break  2.  for i in range(1,10):  if i%3 == 0:  continue  print(i, end=" ")  print()  3.  #question loop till user enter "exit" keyword  while True:  txt = input("enter any word")  if txt.lower() == "exit":  break  print("program closed")  4.  num = [1,-3,-3,4,8,0,-1,-4,6,2,10]  for i in num:  if i <= 0:  continue  print(i, end = " ")  5.  for num in range(1, 51):  if num > 1:  for i in range(2, num):  if (num % i) == 0:  break  else:  print(num)  6.  7.  while True:  password = input("Enter a password: ")  if len(password) < 8:  print("Weak: Password is too short.")  elif not any(char.isdigit() for char in password):  print("Moderate: Password contains no digits.")  elif len(password) >= 12 and any(char.isdigit() or not char.isalnum() for char in password):  print("Very Strong: Password is strong with special characters.")  else:  print("Strong: Password is strong.")  break  8.  9.  li = list(map(int,input("Enter number for list :").split(" ")))  l2 = []  for x in li:  if x in l2:  #print("exist")  continue  else:  l2.append(x)  print(x, end= " ") |
| **Screen Shot of Output:** |  |
| **Observations:** |  |
| **Conclusion:** |  |

**Subject-In-Charge:**

**Sign: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Prof. Mayura Nagar**