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| A picture containing drawing, stop, room  Description automatically generated | Python Programming  Practical #6 | | | | |
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| **Name** | Sahil Shah | | **Roll Number** | 21302C0022 | |
| **Subject/Course:** | Python Programming | **Class** | | | SY BSc. IT |
| **Topic** | Practice Session | **Division** | | | C |
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| 1. **Write a Python program to check a reverse number.** | | | | | |
| Program:  Number = int(input("Enter Number: "))  Reverse = 0  while(Number > 0):  Reminder = Number %10  Reverse = (Reverse \*10) + Reminder  Number = Number //10    print("\n Reverse of entered number is = %d" %Reverse)  Output Screenshot | | | | | |
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| 1. **Write a Python program to find the no of digits & letters from a string.** | | | | | |
| Program:  all\_digits = ['0', '1', '2', '3', '4', '5', '6', '7', '8', '9']  all\_letters = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l',  'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z']    string = "SahilShah2410"  total\_digits = 0  total\_letters = 0    for s in string:  if s in all\_digits:  total\_digits += 1  elif s in all\_letters:  total\_letters += 1    print("Total letters found :-", total\_letters)  print("Total digits found :-", total\_digits)  Output Screenshot | | | | | |
| 1. **Write a Python program to explain any five math functions.** | | | | | |
| Program:  import math  print('The value of 5^8: ' + str(math.pow(5, 8)))  print('Square root of 400: ' + str(math.sqrt(400)))  print('The value of 5^e: ' + str(math.exp(5)))  print('The value of Log(625), base 5: ' + str(math.log(625, 5)))  print('The value of Log(1024), base 2: ' + str(math.log2(1024)))  Output Screenshot | | | | | |

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| 1. **Write a program to explain the concept of string slicing with the help of example** |
| Program Screenshot  String = 'SAHILSHAH'  print(String[:3])  String = 'SAHILSHAH'  print(String[3:])  Output Screenshot |
| **5. Write a program to explain any five string functions.** |
| Program:  s="sahilshah"  s2=s.upper()  s3=s.capitalize()  s5=s.swapcase()  s6=s.lower()  print(s2)  print(s3)  print(s5)  print(s6)  print(s.find('l'))  Output Screenshot |
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