**Python Practical ASS1**

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1. **WAP to declare static and dynamic variable and print them.**

**# dynamic variable**

**x = "yash"**

**print("X: ",x)**

**x = 10**

**print("X: ",x)**

**# static variable**

**y = 10**

**print("Y: ",y)**

X: yash

X: 10

Y: 10

**2.WAP to create two level of indentation.**

# two level of indentation

x = int(input("Enter a number: "))

if x >= 10:

if x >= 20:

print("x is greater than 20")

else:

print("x is greater than 10 but less than 20")

else:

print("x is not greater than 10")

**Enter a number: 11**

**x is greater than 10 but less than 20**

**3.WAP to create a user defined function and perform separate arithmetic operator.**

**# Userdifinded function**

**x = int(input("Enter first number: "))**

**y = int(input("Enter second number: "))**

**def add():**

**global x,y**

**print("Sum: ",x+y)**

**def sub():**

**global x,y**

**print("Sub: ",x-y)**

**def mul():**

**global x,y**

**print("Mul: ",x\*y)**

**def div():**

**global x,y**

**print("Div: ",x/y)**

**def mod():**

**global x,y**

**print("Mod: ",x%y)**

**print("Use 1. Addition")**

**print("Use 2. subtraction")**

**print("Use 3. multification")**

**print("Use 4. Division")**

**print("Use 5. Modulus")**

**ch = int(input("Enter your choice: "))**

**if ch == 1:**

**add()**

**elif ch == 2:**

**sub()**

**elif ch == 3:**

**mul()**

**elif ch == 4:**

**div()**

**elif ch == 5:**

**mod()**

**Enter first number: 50**

**Enter second number: 50**

**Use 1. Addition**

**Use 2. subtraction**

**Use 3. multification**

**Use 4. Division**

**Use 5. Modulus**

**Enter your choice: 1**

**Sum: 100**

**4. WAP to create a global variable.**

**# Global Variable**

**x = 10**

**def fn():**

**global x**

**x = 20**

**print("X: ",x)**

**fn()**

**print("X: ",x)**

**X: 20**

**X: 20**

**5. WAP to create a local variable.**

**# Local Variable**

**def fnc():**

**x = 10**

**print("X: ",x)**

**fnc()**

**# print(x) will give error as x is local variable**

X: 10

**6.WAP to find datatype for different variable.**

#Types of datatypes in python

x = 10

y = "Yash"

z = 5.45

a = [1,2,3,4,5]

b = {"ley": 1, "two": 2, "three": 3}

t = (1, 2, 3, 4, 5)

isvalid = True

c = 5 + 3j

print(type(x))

print(type(y))

print(type(z))

print(type(a))

print(type(b))

print(type(t))

print(type(isvalid))

print(type(c))

**<class 'int'>**

**<class 'str'>**

**<class 'float'>**

**<class 'list'>**

**<class 'dict'>**

**<class 'tuple'>**

**<class 'bool'>**

**<class 'complex'>**

**7.WAP to convert a datatype into another datatype.**

**#One datatype to another datatype**

**x = "10"**

**y = int(x)**

**print("Y: ",y)**

**c = 100**

**b = str(c)**

**print("B: ",b)**

**a = float(c)**

**print("A: ",a)**

**Y: 10**

**B: 100**

**A: 100.0**

**8. WAP to declare argument in function.**

**def name(x):**

**print(x)**

**name("Yash"),name("Bhakta")**

**Yash**

**Bhakta**

**9. WAP to perform default argument value of sum function.**

**def sum(x,y=2):**

**z=x+y**

**print(z)**

**sum(10)**

**12**

**10. WAP to pass a,b argument in class function and return the value of class function.**

**def classs(x,y=2):**

**z=x\*y**

**return z**

**ans=classs(10)**

**print(ans)**

**20**

**11. WAP to take users favourtie movies and store it in a list and print it at the end.**

**n=int(input("Enter No. of Movies you like:"))**

**i=1**

**movies=[]**

**while i<=n:**

**m=str(input("Enter Movie: "))**

**movies.append(m)**

**i+=1**

**print(movies)**

**Enter No. of Movies you like:3**

**Enter Movie: KGF**

**Enter Movie: KGF2**

**Enter Movie: SAALAR**

**['KGF', 'KGF2', 'SAALAR']**

**12. WAP to check if a list is palindrome**

**l=[1,2,1]**

**l1=l.copy()**

**l.reverse()**

**if l1==l:**

**print("List is paliandrome")**

**else:**

**print("List is Not paliandrome")**

**List is paliandrome**

**13.WAP to evaluate methods of string**

**s='Yash'**

**s1=s.lower()**

**print(s1)**

**s2=s.upper()**

**print(s2)**

**s3=s.capitalize()**

**print(s3)**

**s4=s.find('s')**

**print(s4)**

**s5=s.replace('a','s')**

**print(s5)**

**yash**

**YASH**

**Yash**

**2**

**Yssh**

**14.WAP to find a matching element from the list**

**l=[1,2,3,4,5,6]**

**n=int(input("Enter a number from 1 to 6 : "))**

**i=0**

**while i<=5:**

**if n==l[i]:**

**print(n,'found on index',i)**

**break**

**else:**

**print("Searching..")**

**i+=1**

**Enter a number from 1 to 6 : 6**

**Searching..**

**Searching..**

**Searching..**

**Searching..**

**Searching..**

**6 found on index 5**

**15.WAP to check if a string is palindrome**

**s=str(input("Enter string: "))**

**if s == s[::-1]:**

**print("It is palindrome")**

**else:**

**print("It is not palindrome")**

**Enter string: dad**

**It is palindrome**

**16.WAP to find the frequency of an element provided by user in the list.**

**l=[1,2,3,4,5,6,2,2,3,5,2]**

**n=int(input("Enter a number from 1 to 6 : "))**

**i=0**

**c=0**

**while i<len(l):**

**if n==l[i]:**

**print(n,'found on index',i)**

**c+=1**

**else:**

**print("Searching..")**

**i+=1**

**print(c)**

**Enter a number from 1 to 6 : 2**

**Searching..**

**2 found on index 1**

**Searching..**

**Searching..**

**Searching..**

**Searching..**

**2 found on index 6**

**2 found on index 7**

**Searching..**

**Searching..**

**2 found on index 10**

**4**

-Yash Bhakta