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**Exercise 5**

**(1)Write a Python program to use try-except-else block**

**(2)Write a Python program to use try-except-finally block**

**(3)Write a Python program to write your own exception and throw it.**

**(4) Write a Python program to demonstrate the use of built in modules random and math.**

**(5) Write a program to create a module and to use its functionality.**

**CODE**

**(1).**

**try:**

**age=int(input('Enter your age: '))**

**except:**

**print ('You have entered an invalid value.')**

**else:**

**if age <= 21:**

**print('You are not allowed to enter, you are too young.')**

**else:**

**print('Welcome, you are old enough.')**

**2. a = 10**

**b = 0**

**try:**

**c = a / b**

**print(c)**

**except ZeroDivisionError as error:**

**print(error)**

**finally:**

**print('Finishing up.')**

**3. class UnderAge(Exception):**

**pass**

**def verify\_age(age):**

**if int(age) < 18:**

**raise UnderAge**

**else:**

**print('Age: '+str(age))**

**verify\_age(23) # won't raise exception**

**verify\_age(17) # will raise exception**

**4. import random**

**print("random.random()",random.random())**

**print("random.randint(1,5)",random.randint(1,5))**

**print("random.randrange(10,15)",random.randrange(10,15))**

**random.seed(100)**

**print("random.random.seed(100)",random.random())**

**print("random.choice([5,10,15])",random.choice([5,10,15]))**

**print("random.choice('xyz')",random.choice('xyz'))**

**list1=[1,2,3,5,10]**

**random.shuffle(list1)**

**print("shuffled list",list1)**

**print("random.uniform(1,10)",random.uniform(1,10))**

**print("random.sample([1,2,3,4,5],2))",random.sample([1,2,3,4,5],2))**

**import math**

**print("math.floor(1000.5)",math.floor(1000.5))**

**print("math.ceil(1000.5)",math.ceil(1000.5))**

**values=[0.9999999,1,2,3]**

**r=math.fsum(values)**

**print("math.fsum(values)",r)**

**print("math.trunc(123.45)",math.trunc(123.45))**

**print("math.pow(2,3)",math.pow(2,3))**

**print("math.sqrt(4)",math.sqrt(4))**

**print("math.fabs(-123.5)",math.fabs(-123.5))**

**print("math.exp(2)",math.exp(2))**

**print("math.degrees(.50)",math.degrees(.50))**

**print("math.radians(20)",math.radians(20))**

**5. Def print\_func(par):**

**print(“hello:”, par)**

**return**

**import name**

**name.print\_func(“zara”)**