Unique ID: MSC. Degree E7321008 Continuous Assessment - 2 CSC 520: Pythan Pragramming 1) Subject List & classist

- - i) Creating a class subject-list.
- ii) Defining the constructor and attributes
- (ii) Creating empty lists for name, marks and test-grades.
- in Defining a method 'get-input' which has the user input statements.
- D) Gotting input from user for the number of students to be graded a 'n'.

for i in range (n) # n= 0 1 name = [Peter Parker] i = 0 marks = [10,20,30] i=0 appending to list test grades i=1 name-[sead Poats marches = [50, 60, 30] apparding to list test grades. vi) Creating another class class-list of inheriting the attributes from the base class Subject list. vii) Defining constructor and attributes viri) Creeating an empty list 'class_list' Wix) Defining method overage to find the anerage of marks. fort i in reage (n) # n= 2 Using an exception handling if the marks list is empty : into the contract of the contract o ong - Sum (testgrades [i][1]) lan (1) except: Zero Division excor testgrales [6][1)

d > 10 stilles Mills appending average to testgrades list. for i in stange (n) # 1 = 2 i = 0, 1 teildrem oftene no earlie ti appending an empty list to testgrades. deleting the averages of other markes. appending test-grades to class list. Invoking object to class class list. Calling method overage & using the object.

2) Difference between Complex numbers & find negative of anumber Di)Create a class Operator 3) assigning value to attrabute 4) Creating a magic function of defining attribute

- Sub

- Sub

Returning the orevloaded for complex no:

Calculation 6) Coreating a magic function -- neg - 4 defining attribute c' for finding the negative of a no: 7) Retwening the overloaded object. aptione of 1. Ditt between 2 complex númbers

2. Neg no:

aption = 1

until option > 0 ## aption=1

1 option= = 1 True option= 2 False Creating instance of class & gotting input as complex no: Obj 1 = 1+3j Obj2=2+1j obj 1-0bj 2 = [-1+2j] elif option == 2 : ption= 2 True obj 3 = 4 N=Obj3.-reg-() calling the point (N) magic func. dail option > 2: # option = 3 # Colso Involid chaice! Enter o to exit.

- 3) Méta Characteres
- Traporting library Regular expression.
 - ii) defining a function "is_allowed_specific_charle" with an attribute "input_str"
 - ii) Creating a variable 'pattern' and assigning it to a pattern of meta characters.
 - (V) Creating a variable result and assigning it to a library func rematch () for matching the pottern for the infut string.
 - of thing input from usor & assigning it to novable input str.
 - vi) Calling the function of using input str as attribute.

4) i) Importing reardom Sunction ii) Creating a baselass 'Hat'. in) Defining the constructor and the attrabates. iv) Defining nothed Color. w) Creating an empty list A'. vi) Gettling input tocom user it a= total no: or belle to total b= No of balls to be drawn.

while a < b using an exception handling it acb raise limit exercor except limit everor b = arter input again for i in reange (b) # b=5 1=0,1,2,3,4 d= using reardism values (0,2) if d = = 0 1 appending red to list A appending blue to list A

if d = 2appending green to list A. Count + = 1 of base class Hat! viii) Defining constructor and attributes. ett grisilaiten & best' bestem grinifed (x; attributes of calling the attributes of Hat.

2) Defining mothed blue of attentes of calling the attributes of Hat. xi) Defining method green & initializing the attributes of hat. xii) calling the method color inside Het in the method green.