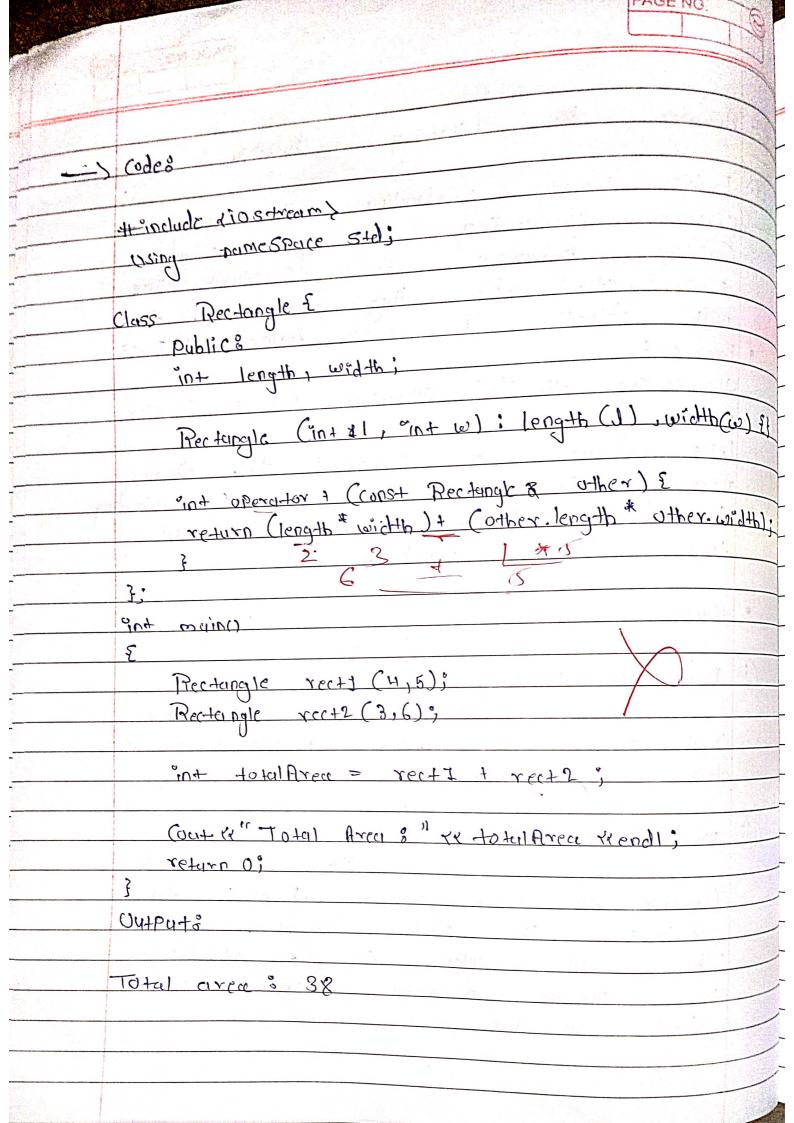
3.	OPerciters in C++ PAGENO. 8
9.1	Ansurive the following Questions:
	Define on
=>	Operator overloading is teature in
	C++ that allow developer to redefine
	the behaviour of operators (Such as
	t,-, t, etc.). for vier define derter
	of these use
COLUMN TO THE PARTY OF THE PART	on tuitive, making Code with objects
	and expressive
The state of the s	and expressive.
<u>D.</u>	Which operators Connot be avertant to
	Certain aperators
	Overlouded. This Include:
	(i) Scope resolution operators (:i)  (ii) Member Selection operator (.)
(	SHIM THOM
	a member (*).
	(iv) Conditional (ternary) operator (p:).
	Which aperator Cannot be used with
	The assignment operator (=); function (all
	2000
	as member functions be overloaded
	FUNCTION 1915 15 Decayse - L
	direct circless to the objects internals,

	which member function Provide.
4.	Define type Conversion. Type Conversion is the Process of
	Converting a value from one date
	Conversion Can be amplicit (coutometic)
3.	or explicit (forced by programmer); cillowing Compulity and flexibility
	collowing Compality lity and flexibility between different dutee types during Computations or assignments.
	And the second s

PAGE NO

\	6	Edi
	(2.)	Explain type Cust operator.
	$\Rightarrow$	the type Coiset appropriately go and is
	All house	USECT 40 CONVEYT a Value from ODE
		cratter.
		pHere, four main types of occusting
		717 C+1 3-
	(1)	Static Cast 3-
100	11 - 11 - 1	It is used for standard
		Conversion.
	2 	like: f = Static (ast yfloat )(10):
	(ii)	Dynamic - Cast &
		used in inheritance for sufc
		& Casting, mainly with Pointers ar
- N-		refevences.
		Derived to dynamic _ Cast Y Devived \$ (baseptr)3
ā- ģē	7	
, A	(iii)	Const - Cost 3
100		used to add or remove
1 1 1 1 2		Const from a variable.
	640	on+ & P = Const—(ast Yin+ *> (constPtr);
ille.		
	ON ON	reinterpret_Coist 3
		Dead for los level (astino
		19/14 P = reinterpet _ (ast Tint x>(ptr))
1	PW1	Salt D = resider Det Coat rintho Cato 1:
1	<u>Cu.</u>	111+ 1 = YCHINETPL COST INT / PTI
		1 1 2 ° 2 Cas c'araima
V.		These operaters hell in conservating
		These operaters help in conserting  types Safely and efficiently in oup.
THE LE	1	

/	8.3	Answere the following Questions:
/	(1)	Explain operator overloading with crample.
/		Operator overloading ellaro you to define
_		Custom behaviour for operators (line
_		+, -, +, etc.) when they are used to
		with objects of user-defined classes.
	100	Example
E		Overlocaling the "t" Operator for a Complex
	14 Y .	number Class.
		Let's Create a "Complex" class that
		represents Complex numbers , and Overloading
		the "+" Operator to and cidd
		tena Complex pumbers.
Miles H		
	•	Steps 3
	0	Steps 3
	0	
	0	Define the Class?
	0	Define the Class?  Define ce Class that not
	0	Define the class?  Define ce class that not  real ad and smaginary ports as 9+5
	0	Define the Class?  Define ce Class that not
	(f)	Define the class?  Define ce class that not  real act and smaginary ports as 9+5  delter members.
	(f)	Define the class?  Define ce class that not  real ad and smaginary ports as 9+5
	(f)	Define the Class?  Define ce Class that not  real act and smarginary parts as 9+5  delter members.  Define a member
	(f)	Define the class?  Define ce Class that not  real act and amonginary ports as 9+5  denter members.  Define a member  Function by hon-member function to
	(f)	Define the class?  Define a Class that not  real act and among parts as 9+5  delter members.  Define a member  Define a member  Lunction of hor member function to  Department of the company of the comp
	(f)	Define the class?  Define at cond programy parts on 9+5  Teal at and small propriate on 9+5  Define a member of member  Larrion or hon-member function to  Derine at member  Derine a member  Larrion or hon-member of member  Derine a member of memb
	(f)	Define the class?  Define a Class that not  real act and among parts as 9+5  delter members.  Define a member  Define a member  Lunction of hor member function to  Department of the company of the comp



De Explain type Conversion with an example.	
Conversion	
Changeing a Variable Co	
Changeing a Variable from one data type to another.	-
To oop, type Conversion Can hoppen	
hetrigen hills -	
between byilt-in types (ille int to	
floor) du between user - defined type.	
There are two main types of type	
Conversion in (++;	_
Implicit type Conversion (Autometic):	
This	
type of Conversion is automotically	
type of done by Compile when you	
mix different dove types 90	
eanression.	
ex: if you add on int and float, the	
950 350 310 310 6	
ant (311 entomatically be Couperted	
to flout.	
-> code:	
int $q = 5$ ;	
float b = 10.5;	
float result = a+b;	
Cout & " Desult; " de result dend!;	
1) output 3	
Result : 15.5	
- 2 - 12/- 11 0	-
ii) Explicit type Conversion Cuser-defined):	east-ratespe
To Some Cise you need to oletine	-
how object of a class Com be Converted to converter type.	

This is Couled explicit type Conversion This is Collect and defining a type cond is done by defining a type Constructor s) Code : #include riostreum) Using rumeSpace Stdi Class Centimeter & Public à int (mj Centimeter (int (): (m(c) {} Operator Hout () return Cm /100.00; ant main() Contimpter dist (250); flocit meters = dist; Cout of "Distence in meters;" Kmeter Kimpters" return 0; Distance in meters: 25 meters.