	A	B	C	D	E	F	G	H	I	J	K
1	Marks distribution of 1000 students follows Normal distribution with mean 60 and S.D. 10. From this group										
2	one student is selected at random, compute the probability that mark of the student lies										
3		i) below 70		ii) more than 65		iii)between 55 to 65					
4	Also, estimate the number of students whose mark is										
5		i) atleast 62		ii) atmost 70		iii) between 58 to 68					
6											
7	Solution :· Let , x = Marks										
8	Here, we have										
9		Mean(μ)=	60		S.D.(σ)=	10	N=	1000			
10	First part										
11	i) Req. prob. = p(x<70)=				0.8413	0.841344746					
12	ii) Req. prob. = p(x>65)=				0.3085	0.308537539					
13	iii) Req. prob. = p(55<x<65)=				0.3829						
14					0.382924923						
15	Second part										
16	i) Req. No. = N*p(x≥62)=				421	420.7402906					
17	ii) Req. No. = N*p(x≤70)=				841	841.3447461					
18	iii) Req. No. = N*p(58<x<68)=				367						
19					367.4043109						
20											
21				Name:Karina Kc							
22				Roll No:15							
23											